=orm # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

BULLERION PERMIT

Permit Number: 091408

Skillful Re Llc /Project Resource lnc. / D This is to certify that Change of Use: From warehous tail to b has permission to with inte CB 1034 H002001 FEB - 5 2010 AT 58 Alder St

provided that the person or persons, fir or condension accepting this permit shall comply with all e and of the Court aces of the City of Portland regulating of the provisions of the Statutes of Ma the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Noti ition of spection nust be nd writte give ermissid rocured g or pa befo his buil lathe or oth HOU NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS Fire Dept. CHPT. X. January Health Dept. **Appeal Board** Other

Department Name

Director Building & Inspection

PENALTY FOR REMOVING THIS CARD

City of Portland, M	aine - Bui	lding or Use	Permi	t Application	1 Per	rmit No:	Issue Date	:	CBL:	
389 Congress Street, 0		•			- 1	09-1408			034 H00	2001
Location of Construction:		Owner Name:			Owne	r Address:			Phone:	
58 Alder St Skillful Re Llo		c P		Po E	Po Box 2					
Business Name:		Contractor Name	:		Contr	actor Address:		•	Phone	
Project Resour		ces, In	c. / Dale Akele		Box 661 Yarn	nouth		20783111	80	
Lessee/Buyer's Name Phone:]			t Type:				Zone: ~	
		<u> </u>		J	Cha	nge of Use -	Commercia	1		D-/
Past Use:		Proposed Use:			Permit Fee: Cost of Work:			k:	CEO District:	
Commercial / Skillfull Vending Change of Use				\$5,495.00 \$540,000.00		00.00	1			
		warehouse/reta			FIRE	DEPT:	Approved	INSPE	CTION:	
		with interior re	enovatio	ons.			Denied	Use Gr	roup: $\mathcal{A}\cdot\mathcal{B}$	Type: 3B
					سد ا	C 4	1	Full	y sprinkle	, (%
					\ \tag{\tag{\tag{\tag{\tag{\tag{\tag{	See Con	diriuns	~	roup: A. 3 ly sprinkle larme. L TBC TO	203
Proposed Project Description					1	(h	3	=	2011	
Change of Use: From w	arehouse/reta	il to bowling all	ey with	interior	Signa			Signatu		
renovations.					PEDE	STRIAN ACTI	VITIES DIST	TRICT (P.A.D(.)	
					Actio	n: Approv	ved 🗍 Apı	proved w	/Conditions	Denied
									ъ.	
			г		Signa				Date:	
Permit Taken By:		pplied For: 1/2009	}			Zoning	Approva	ıl		
gg			Spe	Special Zone or Reviews Zoning			ng Appeal	Appeal Historic Preservation		
1. This permit applica Applicant(s) from n					Variance		}	Not in District or Landmar		
Federal Rules.	neeting appir	cable State and	🗀 🤉	noreland		Variance	е	}	District	OI Lanuma
2. Building permits do		plumbing,	☐ Wetland ☐ Miscellar		neous Does Not Red		uire Review			
septic or electrical v 3. Building permits are	e void if wor		☐ Flood Zone ☐ Subdivision			Conditional Use Interpretation			☐ Requires Review ☐ Approved	
within six (6) montl False information m										
permit and stop all	work	_								
			[] Si	te Plan		Approve	ed	1	Approved w/C	Conditions
			t t	09-7990		7		}		\
DEDMIT	COLLE		Maj [Minor MM		Denied	1	Ì	Denied)
PERMIT I	33UE	U	$\left \begin{array}{c} 1 \\ 1 \end{array} \right $	Dic	nli	tul,	1 1	1	\sim	
			Date:	in Million		Date:	2/10	D	Pate:)
FEB - 5	2010			712/	1,1,	19	· <u>·</u> ·····			·, · ·
. 25				[1/6	Ί.			a second	
<u> </u>						••				
City of Po	rtiand									
			(CERTIFICATION	ON					
I hereby certify that I am										
I have been authorized by										
jurisdiction. In addition, shall have the authority to										
such permit.	o cinci all alt	as covered by St	on peri	ini at any 16as01	iavi¢ I	ioui to cilioit	c me broom	SIOH OL	are coucts) app	manie il
1										
OVOLVE TO THE TOTAL OF THE TOTA										
SIGNATURE OF APPLICAN	T			ADDRESS	S		DATE		PHON	1E
RESPONSIBLE PERSON IN	CHARGE OF V	VORK, TITLE					DATE		PHON	JE
		, 					21112		11101	

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-cor	nstruction Meeting will take place upon receipt of your building permit.
X/	Footing/Building Location Inspection: Prior to pouring concrete or setting
	precast piers
(X)	Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling
X	Final/Certificate of Occupancy: Prior to any occupancy of the structure or use NOTE: There is a \$75.00 fee per inspection at this point.
$\overline{\mathbf{x}}$	The final report of Special Inspections shall be submitted prior to the final inspection or the issuance of the Certificate of Occupancy

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects <u>DO</u> require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Signature of Applicant/Designer

Signature of Inspections Official

Data

Date

Date

PERMI LOUED

FEB - 5 2019

City of Pordand

CBL: 034 H002001

Building Permit #: 09-1408

Permit No: Date Applied For: CBL: City of Portland, Maine - Building or Use Permit 09-1408 12/11/2009 034 H002001 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716 **Location of Construction:** Owner Name: Owner Address: Phone: 58 Alder St Skillful Re Llc Po Box 2 **Business Name:** Contractor Name: Contractor Address: Phone Project Resources, Inc. / Dale Akele PO Box 661 Yarmouth (207) 831-1180 Lessee/Buyer's Name Phone: Permit Type: Change of Use - Commercial **Proposed Project Description:** Proposed Use: Change of Use: From warehouse/retail to bowling alley with interior Change of Use: From warehouse/retail to bowling alley with interior renovations. renovations. Reviewer: Marge Schmuckal **Approval Date:** 12/11/2009 Dept: Zoning Status: Approved with Conditions Ok to Issue: Note: 1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that 2) Separate permits shall be required for any new signage. Reviewer: Tammy Munson **Approval Date:** 02/05/2010 Dept: Building Status: Approved with Conditions Ok to Issue: Note: 1) Separate Permits shall be required for any new signage. 2) Separate permits are required for any electrical, plumbing, sprinkler, fire alarm or HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process. 3) Permit approved based on the plans submitted and reviewed w/owner/contractor, with additional information as agreed on and as noted on plans. 4) New cafe, restaurant, lounge, bar or retail establishment where food or drink is sold and/or prepared shall meet the requirements of the City and State Food Codes 5) Approval of City license is subject to health inspections per the Food Code. 6) All special inspection reports must be submitted to this office for review within 48 hours of the inspection. A final special inspection report must be submitted prior to issuance of a certificate of occupancy. This report must demonstrate any deficiencies and corrective measures that were taken. 7) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approrval prior to work. 12/15/2009 **Approval Date:** Status: Approved with Conditions Reviewer: Capt Keith Gautreau Dept: Fire Ok to Issue: Note: 1) The sprinkler system shall be installed in accordance with NFPA 13. 2) All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP and keyed alike, labeled "FIRE ALARM RECORDS". 3) System acceptance and commissioning must be co-ordinated with alarm and suppression system contractors and the Fire

4) The Fire Department will require knox locking caps on all Fire Department Connections on the exterior of the building.

8) Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance

Department. Call 874-8703 to schedule.

5) Application requires State Fire Marshal approval.6) A separate Suppression System Permit is required.

7) All construction shall comply with NFPA 101

Location of Construction:	Owner Name:		Owner Address:	Phone:	
58 Alder St	Skillful Re Llc		Po Box 2		
Business Name:	Contractor Name:		Contractor Address:	Phone	
	Project Resources, Inc. / Dale Akele		PO Box 661 Yarmouth	(207) 831-1180	
Lessec/Buyer's Name	Phone:		Permit Type:		
			Change of Use - Commercial		

- 9) The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.
- 10 The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.
- 11 Occupancies with an occupant load of 100 persons or more require panic harware on all doors serving as a means of egress.
- 12 Emergency lights and exit signs are required. Emergency lights and exit signs are required to be labeled in relation to the panel and circuit.
- 13 Fire alarm system requires a Masterbox connection per city ordinance.

 Masterbox design and installation shall be as approved be City Electrical Division.
- 14 Fire extinguishers required. Installation per NFPA 10
- 15 Emergency lights are required to be tested at the electrical panel on the same circuit as the lighting for the area they serve.
- 16 Sprinkler protection shall be maintained.

 Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the system has been placed back in service.
- 17 Fire Alarm system shall be maintained.

 If system is to be off line over 4 hours a fire watch shall be in place.

 Dispatch notification required 874-8576.
- 18 A separate Fire Alarm System Permit is required.
- 19 Fire department connection type and location shall be approved in writing by fire prevention bureau.

Comments:

12/11/2009-gg: received pdf, entered and with permit. /gg

12/11/2009-mes: e-mailed Shukria on whether Planning is ready to sign-off and allow inspections to issue the permit. I am passing the permit on to Fire to start the review HOLD THE PERMIT UNTIL PLANNING SIGNS OFF -

From:

Philip DiPierro Code Enforcement & Inspections To:

Date: 2/4/2010 3:20 PM

Subject: Bowl Portland, 58 Alder Street

Hi all, this project meets minimum DRC requirements for the issuance of the Building Permit. See HTE for sign off.

Thanks.

Phil

F09 1408

General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 5% Total Square Footage of Proposed Structure/A		
16,083 57	24.547 st	
Tax Assessor's Chart, Block & Lot	Applicant *must be owner, Lessee or Buye	er* Telephone:
Chart# Block# Lot#	Name Bowl Portland, LLC	
34 H 2	Address 161 Congress St.	207-712-1511
DECEN	City, State & Zip Portland, ME 04	101
Lessee DB. (WADplik be)	Owner (if different from Applicant)	Cost Of
	Name Ross Y. Furman	Work: \$ 540,000
DEC 11 2009	Address Po Box 2	C of O Fee: \$ 5,420
Dept. of Building Inspections	City, State & Zip Portland, ME	Total Fee: \$ 5,420
Current legal use (i.e. single family)	Assembly A-2/A-3 W	100
If vacant, what was the previous use?	ASSERTING A.C/A.S	3 eta: 1 3.71 70 11
Proposed Specific use:	41124	Vend;
Te property part of a subdivision?	If you places name	
Project description: Change of use	how Ware house Ret	toul cord
Project description: Change of upe	nterior den orations	3 kg 5420.
Contractor's name: Owters Repr	esentative - Project Resou	rces Total
Address: Po Rox 661 2	53 Main Street	5,495
City, State & Zip Yarmouth, ME		
Who should we contact when the permit is rea	dy: Dale Akoley T	Telephone: 207 - 63/ - 1180
Mailing address: Same		
Please submit all of the information		ist. Failure to
do so will result in the	e automatic denial of your permit.	4000
	full scope of the project, the Planning and I	30

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

	$Z \perp$		
Signature:	\geq	Date:	12/10/09

This is not a permit; you may not commence ANY work until the permit is issue

From:

"David Matero" <david@daymatero.com>

To:

TMM@portlandmaine.gov

Date: Subject: 2/3/2010 4:33 PM **Bowl Portland**

Tammy,

I spoke with Acudor and they forwarded this floor access door that would work for Bowl Portland. The size is not the same but it can be manufactured to our size.

I had the GC confirm existing conditions and this is what we have:

The current stair to the crawl space has 8 1/2" risers and 9" treads. There are currently 12 risers and 11 treads. The stair is 3'02" wide. If we maintain an opening of 8'04" minimum we will have head height of 6'08".

Acudor can manufacture an access door that is 3' wide x 8'06" long. This size will allow the stair to remain and still maintain proper head height. The top will be recessed 1/8" to install carpet.

Please contact me as soon as possible. If this is sufficient the Owner will be anxious for the building permit. I will be on site Thursday morning meeting with public works for our site meeting requirement. I would be able to stop by if necessary.

Thank you for your help.

Sincerely,

David

David S. Matero, AIA, LEED AP

DayMatero studio

100 Front Street

Top Floor

Dept. of Building Inspections City of Portland Maine

Bath, ME 04530

david@daymatero.com

http://www.daymatero.com/

207.671.6820

Cc: Dale Akelely, Owner's Representative

Brucke Hilfrank, Zachau Construction

From: Chris Tyrpak [mailto:ctyrpak@acudor.com] Sent: Wednesday, February 03, 2010 4:19 PM To: 'david@daymatero.com' Subject: Drawing

Please see attached

Christopher Tyrpak

Sales & Estimating

ACUDOR PRODUCTS, INC.

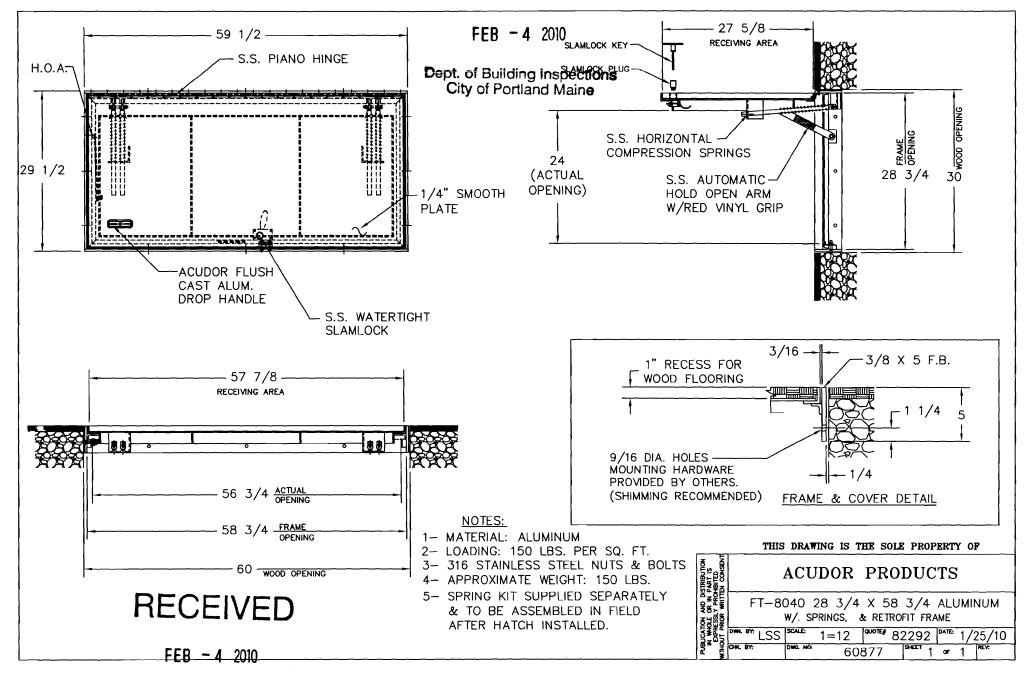
t 800-722-0501 ext. 106

f 973-575-5160

www.acudor.com

CC: bruce@zachauconstruction.com; eprojec1@maine.rr.com

RECEIVED



From:

"David Matero" <david@daymatero.com>

To:

TMM@portlandmaine.gov

2/2/2010 4:40 PM

Date: Subject:

RE: Response to code enforcement comments

Tammy,

Attached is a cut sheet of the alternating tread stair for Bowl Portland.

The stair company is Lapeyre Stair, and the GC has worked with them before.

The cut sheet is a formula worked out from their website, and the floor to floor dimensions were measured on site.

Please call with questions.

Thank you.

David

David S. Matero, AIA, LEED AP DayMatero studio 100 Front Street Top Floor Bath, ME 04530 david@daymatero.com http://www.daymatero.com/ 207.671.6820

----Original Message-----

From: Tammy Munson [mailto:TMM@portlandmaine.gov]

Sent: Tuesday, February 02, 2010 11:25 AM

To: David Matero

Subject: Re: Response to code enforcement comments

Hi David, can you provide me the spec's on the alternating stair? If they are on a web site you can refer to the page that gives the dimensions and forward that to me. As long as I can print a spec page, I'll put it in the file.

>>> "David Matero" <david@daymatero.com> 2/1/2010 8:31 PM >>> Tammy,

Attached is our response to your comments regarding Bowl Portland. I will drop off a full size drawing of the reflected ceiling plan which is included in this file. Also included is the IECC 2003 compliance letter and a statement of special inspections.

Please contact me with questions.

Sincerely,

- Notreel stray
afting existing
Liebing

David Matero

David S. Matero, AIA, LEED AP

DayMatero studio

100 Front Street

Top Floor

Bath, ME 04530

<mailto:david@daymatero.com> david@daymatero.com

http://www.daymatero.com/

207.671.6820

CC: bob@zachauconstruction.com; eprojec1@maine.rr.com; Bruce@zachauconstruction.com

DayMatero -

100 Front Street Top Floor Bath, Maine US 04530 207.671.6819 daymatero.com

February 01, 2010

Ms. Tammy Munson Code Enforcement Officer City of Portland, Maine 389 Congress Street Portland, ME 04101

Re: Bowl Portland – 58 Alder Street

Dear Tammy,

Per our discussion, please see our response that is reflected in the construction documents for Bowl Portland:

- 1. Sprinkler heads will be added above each lot line window.
- 2. The interior finish of surfaces shall be as follows
 - a. Vertical exits and exit passageways shall be Class B
 - b. Exit access corridors shall be Class B
 - c. Rooms and enclosed spaces shall be Class C
- 3. Per IBC section 1209.3, access to mechanical appliances installed in under-floor area shall be in accordance with the International Mechanical Code which does allow a fixed ladder or alternating tread stair. We propose to enlarge the proposed floor hatch from 36" x 36" to 42" x 42" and provide an alternating tread stair.
- 4. The second floor shall have a limit of 9 occupants and is <u>not</u> a kitchen prep area
- 5. The head height at the stair to the second floor is 6'-8" or above.

- 6. Attached is a compliance report by ComCheck, IECC 2003, as requested. Please note that envelope, lighting, and mechanical passes. Drawing A7.1, Reflected Ceiling Plan and Lighting Plan is resubmitted and shall be considered part of the construction documents. A full size drawing will be forwarded to your attention.
- 7. Attached is a statement of special inspections.

Thank you for your help in the review of this project.

Sincerely,

David Matero, AIA, LEED AP

Cc: Charlie Mitchell, Justin Alfond, Dale Akeley, Bruce Hilfrank

Encl: ComCheck Report
Statement of Special Inspections
Drawing A7.1



COMcheck Software Version 3.7.0 Envelope Compliance Certificate

2003 IECC

Section 1: Project Information

Project Type: **New Construction**Project Title: Bowl Portland

Construction Site: 58 Alder Street Portland, ME 04101 Owner/Agent:
Dale Akeley
Project Resources
PO Box 661
253 Main St
Yarmouth, ME 04096
207.846.8875
eprojec1@maine.rr.com

Designer/Contractor:
David Matero
DayMatero studio
100 Front Street
Top Floor
Bath, ME 04530
207.671.6820
david@daymatero.com

Section 2: General Information

Building Location (for weather data):
Climate Zone:
Heating Degree Days (base 65 degrees F):
Cooling Degree Days (base 65 degrees F):
Vertical Glazing / Wall Area Pct.:
Portland, Maine
15
7378
268
4%

Activity Type(s)	Floor Area
Gynmasium Playing Surface	7615
Corridor, Restroom, Support Area	180
Lobby - Other	700
Corridor, Restroom, Support Area	550
Kitchen	710
Corridor, Restroom, Support Area	735
Corridor, Restroom, Support Area	75
Restaurant	2500

Section 3: Requirements Checklist

Envelope PASSES: Design 44% better than code

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor _(a)
Exterior Wall 1: Solid Concrete or Masonry <= 8", Furring: None Comments: Continuous except at brick piers	6460		15.2	0.058	0.075
Window 1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.67 Comments: Includes storefront doors	232			0.340	0.526
Basement Wall 1: Solid Concrete or Masonry <= 8", Furring: None, Wall Ht 4.5, Depth B.G. 4.5 Comments: Closed cell spray insulation	675		12.0	0.075	0.100

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.

Project Title: Bowl Portland
Data filename: T:\Projects\Bowl Portland 09-017\Architectural\02-Study\Energy\bowl portland iecc.cck

Report date: 02/01/10 Page 1 of 10

☐ 2. Windows, doors, and skylights certified as meeting leakage requirements.
3. Component R-values & U-factors labeled as certified.
4. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
5. Stair, elevator shaft vents, and other dampers integral to the building envelope are equipped with motorized dampers.
6. Cargo doors and loading dock doors are weather sealed.
7. Recessed lighting fixtures are: (i) Type IC rated and sealed or gasketed; or (ii) installed inside an appropriate air-tight assembly with a 0.5 inch clearance from combustible materials and with 3 inches clearance from insulation material.
8. Building entrance doors have a vestibule equipped with closing devices. Exceptions:
Building entrances with revolving doors.
Doors that open directly from a space less than 3000 sq. ft. in area.
9. Vapor retarder installed.
Section 4: Compliance Statement
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2003 IECC requirements in COMcheck Version 3.7.0 and to comply with the mandatory requirements in the Requirements Checklist. David Mayero, Ala Principal Signature Date Date
General Contractor: Zachau Construction Bruce Hilfrank 115 US Route One Freeport, ME 04032



COMcheck Software Version 3.7.0 Interior Lighting Compliance Certificate

2003 IECC

Section 1: Project Information

Project Type: **New Construction**Project Title: Bowl Portland

Construction Site: 58 Alder Street Portland, ME 04101 Owner/Agent:
Dale Akeley
Project Resources
PO Box 661
253 Main St
Yarmouth, ME 04096
207.846.8875
eprojec1@maine.rr.com

Designer/Contractor:
David Matero
DayMatero studio
100 Front Street
Top Floor
Bath, ME 04530
207.671.6820
david@daymatero.com

Section 2: General Information

Building Use Description by: Activity Type

Activity Type(s)	Floor Area
Gynmasium Playing Surface	7615
Corridor, Restroom, Support Area	180
Lobby - Other	700
Corridor, Restroom, Support Area	550
Kitchen	710
Corridor, Restroom, Support Area	735
Corridor, Restroom, Support Area	75
Restaurant	2500

Section 3: Requirements Checklist

Interior Lighting:

1. Total proposed watts must be less than or equal to total allowed watts.
 Allowed Watts Proposed Watts Complies

16059 15205 YES

2. Exit signs 5 Watts or less per sign.

Exterior Lighting:

3. Efficacy greater than 45 lumens/W. Exceptions:

Specialized lighting highlighting features of historic buildings; signage; safety or security lighting; low-voltage landscape lighting.

Controls, Switching, and Wiring:

4. Independent controls for each space (switch/occupancy sensor).

Exceptions

Areas designated as security or emergency areas that must be continuously illuminated.

Lighting in stairways or corridors that are elements of the means of egress.

- ☐ 5. Master switch at entry to hotel/motel guest room.
- ☐ 6. Individual dwelling units separately metered.
- 7. Each space provided with a manual control to provide uniform light reduction by at least 50%.

Project Title: Bowl Portland

Report date: 02/01/10

Data filename: T:\Projects\Bowl Portland 09-017\Architectural\02-Study\Energy\bowl portland iecc.cck

Exceptions:
Only one luminaire in space;
An occupant-sensing device controls the area;
The area is a corridor, storeroom, restroom, public lobby or guest room;
Areas that use less than 0.6 Watts/sq.ft.
8. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft. Exceptions:
Areas with only one luminaire, corridors, storerooms, restrooms, or public lobbies.
9. Photocell/astronomical time switch on exterior lights. Exceptions:
Lighting intended for 24 hour use. 10. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts). Exceptions:
Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.
Section 4: Compliance Statement
Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2003 IECC, Chapter & requirements in COMcheck Version 3.7.0 and to comply with the mandatory requirements in the Requirements Checklist.
Daviel Maiero, Alt Pracipal Signature Z/1/10 Date
Day Maleo studio



2003 IECC

Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)	
Gynmasium Playing Surface	7615	1.4	10661	
Corridor, Restroom, Support Area	180	0.9	162	
Lobby - Other	700	1.3	910	
Corridor, Restroom, Support Area	550	0.9	495	
Kitchen	710	1.2	852	
Corridor, Restroom, Support Area	735	0.9	662	
Corridor, Restroom, Support Area	75	0.9	68	
Restaurant	2500	0.9	2250	

Total Allowed Watts = 16059

Section 2: Proposed Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D)
Gynmasium Playing Surface (7615 sq.ft.)				
Incandescent 4: Bowling Alley: A / Incandescent 50W	1	24	50	1200
Incandescent 5: A1 / Incandescent 75W	2	30	150	4500
Incandescent 6: H / Incandescent 45W	1	21	45	945
Linear Fluorescent 2: C / 48" T8 32W (Super T8) / Electronic	1	18	28	504
Incandescent 9: D2 / Incandescent 50W	2	12	100	1200
Corridor, Restroom, Support Area (180 sq.ft.)				
Incandescent 7: Vestibule: A / Incandescent 75W	1	4	75	300
Lobby - Other (700 sq.ft.)				
Incandescent 8: Entry Lobby: D / Incandescent 50W	1	19	50	950
Linear Fluorescent 3: F / 48" T8 32W (Super T8) / Electronic	2	1	70	70
Kitchen (710 sq.ft.)	_			
Linear Fluorescent 5: Kitchen and Alt Bar: K / 48" T8 32W (Super T8) / Electronic	4	7	110	770
Corridor, Restroom, Support Area (735 sq.ft.)	•	·		
Linear Fluorescent 6: Pinsetting mechanical: F / 48" T8 32W (Super T8) / Electronic	2	6	70	420
Linear Fluorescent 7: N / 48" T8 32W (Super T8) / Electronic	2	6	70	420
Corridor, Restroom, Support Area (75 sq.ft.)	~	ŭ		720
Linear Fluorescent 8: Stairs: F / 48" T8 32W (Super T8) / Electronic	2	2	70	140
Restaurant (2500 sq.ft.)	2	-	,,	140
Incandescent 10: Restaurant: D / Incandescent 50W	1	17	50	850
Incandescent 10: D1 / Incandescent 50W	1	29	50 50	1450
Incandescent 10: Bar Lighting: M / Incandescent 50W	1	12	50 50	600
Linear Fluorescent 9: Other / Premium efficiency	1	4	33	132
Corridor, Restroom, Support Area (550 sq.ft.)	'	4	33	132
Incandescent 10: Incandescent 75W	4	6	76	450
Linear Fluorescent 10: 48" T8 32W (Super T8) / Electronic	1	6	75	450
Linear Fidorescent 10. 40 TO 3244 (Super 16) / Electronic		8 al Proposa	38	304

Total Proposed Watts = 15205

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 16059
Total Proposed Watts = 15205
Project Compliance = 854

Interior Lighting PASSES: Design 5% better than code.

Project Title: Bowl Portland
Data filename: T:\Projects\Bowl Portland 09-017\Architectural\02-Study\Energy\bowl portland iecc.cck



COMcheck Software Version 3.7.0 Mechanical Compliance Certificate

2003 IECC

Section 1: Project Information

Project Type: **New Construction**Project Title: Bowl Portland

Construction Site: 58 Alder Street Portland, ME 04101 Owner/Agent:
Dale Akeley
Project Resources
PO Box 661
253 Main St
Yarmouth, ME 04096
207.846.8875
eprojec1@maine.rr.com

Designer/Contractor:
David Matero
DayMatero studio
100 Front Street
Top Floor
Bath, ME 04530
207.671.6820
david@daymatero.com

Section 2: General Information

Building Location (for weather data):

Climate Zone:

Heating Degree Days (base 65 degrees F):

Cooling Degree Days (base 65 degrees F):

Cooling Degree Days (base 65 degrees F):

268

Section 3: Mechanical Systems List

Quantity System Type & Description

- HVAC System 1: Heating: Central Furnace, Gas, Capacity 320 kBtu/h / Cooling: Rooftop Package Unit, Capacity 174 kBtu/h, Efficiency: 11.00 EER, Air-Cooled Condenser / Single Zone
- 1 HVAC System 2: Heating: Central Furnace, Gas, Capacity 192 kBtu/h / Cooling: Rooftop Package Unit, Capacity 122 kBtu/h, Efficiency: 11.50 EER, Air-Cooled Condenser / Single Zone
- 1 HVAC System 3: Heating: Unit Heater, Electric, Capacity 26 kBtu/h
- 1 Water Heater 1: Service Water Heater, Efficiency: 94.00 % Et

Section 4: Requirements Checklist

Requirements Specific To: HVAC System 1:

- 1. Newly purchased heating equipment meets the heating efficiency requirements
- ☐ 2. Equipment minimum efficiency: Rooftop Package Unit: 9.5 EER
- ☐ 3. Integrated air economizer required

Requirements Specific To: HVAC System 2:

- 1. Newly purchased heating equipment meets the heating efficiency requirements
- 2. Equipment minimum efficiency: Rooftop Package Unit: 10.1 EER
- 7 3. Integrated air economizer required

Requirements Specific To: HVAC System 3:

Non

Requirements Specific To: Water Heater 1:

- ☐ 1. Heat traps in inlet/outlet fittings
- □ 2. 1/2-in. insulation on 8 ft of inlet/outlet piping if no integral heat traps
- 3. Gas Storage Water Heater efficiency: 80.0 % Et (140 SL, kBtu/h)

Generic Requirements: Must be met by all systems to which the requirement is applicable:

_ 1.	Load calculations per ASHRAE Fundamentals
a 2.	Plant equipment and system capacity no greater than needed to meet loads
	- Exception: Standby equipment automatically off when primary system is operating
	- Exception: Multiple units controlled to sequence operation as a function of load
 3.	Minimum one temperature control device per system
4 .	Minimum one humidity control device per installed humidification/dehumidification system
D 5.	Automatic Controls: Setback to 55 degrees F (heat) and 85 degrees F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
	- Exception: Continuously operating zones
	Exception: 2 kW demand or less, submit calculations
(1) 6.	Automatic shut-off dampers on exhaust systems and supply systems with airflow >3,000 cfm
<u> </u>	. Outside-air source for ventilation; system capable of reducing OSA to required minimum
B .	. R-5 supply and return air duct insulation in unconditioned spaces R-8 supply and return air duct insulation outside the building R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
	- Exception: Ducts located within equipment
	- Exception: Ducts with interior and exterior temperature difference not exceeding 15 degrees F.
_ 9.	Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
	- Exception: Continuously welded and locking-type longitudinal joints and seams on ducts operating at static pressures less than 2 inches w.g. pressure classification
	Mechanical fasteners and sealants used to connect ducts and air distribution equipment
_ 1	1. Hot water pipe insulation: 1 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in. Chilled water/refrigerant/brine pipe insulation: 1 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in. Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
	- Exception: Piping within HVAC equipment.
	- Exception: Fluid temperatures between 55 and 105 degrees F.
	- Exception: Fluid not heated or cooled with renewable energy.
	- Exception: Runouts <4 ft in length.
D 1	2. Operation and maintenance manual provided to building owner
a 1	3.Balancing devices provided in accordance with IMC 603.15
Q 1	4. Newly purchased service water heating equipment meets the efficiency requirements
a 1	5. Water heater temperature controls: 110 degrees F for dwelling units or 90 degrees F for other occupancies
1	6.Thermostatic controls have 5 degrees F deadband
	- Exception: Thermostats requiring manual changeover between heating and cooling
	 Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
1	7. Stair and elevator shaft vents are equipped with motorized dampers
Se	ction 5: Compliance Statement
and o	pliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2003 IECC irements in COMcheck Version 3.7.0 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Prheipal Signature Date

Day Mart ero Stralio



COMcheck Software Version 3.7.0 Mechanical Requirements Description

2003 IECC

The following list provides more detailed descriptions of the requirements in Section 4 of the Mechanical Compliance Certificate.

Requirements Specific To: HVAC System 1:

- 1. The specified heating equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for equipment efficiency.
- The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency: Rooftop Package Unit: 9.5 EER
- 3. An integrated air economizer is required for individual cooling systems over 65 kBtu/h in the selected project location. An integrated economizer allows simultaneous operation of outdoor-air and mechanical cooling.

Requirements Specific To: HVAC System 2:

- 1. The specified heating equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for equipment efficiency.
- 2. The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency:
 Rooftop Package Unit: 10.1 EER
- 3. An integrated air economizer is required for individual cooling systems over 65 kBtu/h in the selected project location. An integrated economizer allows simultaneous operation of outdoor-air and mechanical cooling.

Requirements Specific To: HVAC System 3:

None

Requirements Specific To: Water Heater 1:

- 1. Heat traps are required on noncirculating water heating systems on both inlet and outlet connections. Heat traps may be purchased or field-fabricated by creating a loop or inverted U-shaped arrangement on the inlet and outlet pipes.
- 2. Pipe insulation for the specified noncirculating service hot water system is required for all piping in the following categories: a) the first 8 ft of outlet piping from any constant-temperature, noncirculating storage system b) the inlet piping between the storage tank and a heat trap in a noncirculating storage system Pipe insulation must be at least 1/2 in. and have a conductivity no >0.28 Btu-in/(h-ft2-degrees F).
- 3. Service water heating equipment used solely for heating potable water, pool heaters, and hot water storage tanks must meet the following miniumum efficiency: Gas Storage Water Heater efficiency: 80.0 % Et (140 SL, kBtu/h)

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- Design heating and cooling loads for the building must be determined using procedures in the ASHRAE Handbook of Fundamentals or an approved equivalent calculation procedure.
- All equipment and systems must be sized to be no greater than needed to meet calculated loads. A single piece of equipment providing both heating and cooling must satisfy this provision for one function with the capacity for the other function as small as possible, within available equipment options.
 - Exception: The equipment and/or system capacity may be greater than calculated loads for standby purposes. Standby equipment
 must be automatically controlled to be off when the primary equipment and/or system is operating.
 - Exception: Multiple units of the same equipment type whose combined capacities exceed the calculated load are allowed if they are
 provided with controls to sequence operation of the units as the load increases or decreases.
- 3. Each heating or cooling system serving a single zone must have its own temperature control device.
- 4. Each humidification system must have its own humidity control device.
- 5. The system or zone control must be a programmable thermostat or other automatic control meeting the following criteria: a) capable of setting back temperature to 55 degrees F during heating and setting up to 85 degrees F during cooling, b) capable of automatically setting back or shutting down systems during unoccupied hours using 7 different day schedules, c) have an accessible 2-hour occupant override, d) have a battery back-up capable of maintaining programmed settings for at least 10 hours without power.
 - Exception: A setback or shutoff control is not required on thermostats that control systems serving areas that operate continuously.
 - Exception: A setback or shutoff control is not required on systems with total energy demand of 2 kW (6,826 Btu/h) or less.
- Outdoor-air supply systems with design airflow rates >3,000 cfm of outdoor air and all exhaust systems must have dampers that are automatically closed while the equipment is not operating.

- 7. The system must supply outside ventilation air as required by Chapter 4 of the International Mechanical Code. If the ventilation system is designed to supply outdoor-air quantities exceeding minimum required levels, the system must be capable of reducing outdoor-air flow to the minimum required levels.
- 8. Air ducts must be insulated to the following levels: a) Supply and return air ducts for conditioned air located in unconditioned spaces (spaces neither heated nor cooled) must be insulated with a minimum of R-5. Unconditioned spaces include attics, crawl spaces, unheated basements, and unheated garages. b) Supply and return air ducts and plenums must be insulated to a minimum of R-8 when located outside the building. c) When ducts are located within exterior components (e.g., floors or roofs), minimum R-8 insulation is required only between the duct and the building exterior.
 - Exception: Duct insulation is not required on ducts located within equipment.
 - Exception: Duct insulation is not required when the design temperature difference between the interior and exterior of the duct or plenum does not exceed 15 degrees F.
- All joints, longitudinal and transverse seams, and connections in ductwork must be securely sealed using weldments; mechanical fasteners with seals, gaskets, or mastics; mesh and mastic sealing systems; or tapes. Tapes and mastics must be listed and labeled in accordance with UL 181A or UL 181B.
 - Exception: Continuously welded and locking-type longitudinal joints and seams on ducts operating at static pressures less than 2
 inches w.g. pressure classification.
- 10. Mechanical fasteners and seals, mastics, or gaskets must be used when connecting ducts to fans and other air distribution equipment, including multiple-zone terminal units.
- 11. All pipes serving space-conditioning systems must be insulated as follows: Hot water piping for heating systems: 1 in. for pipes <=1 1/2-in. nominal diameter, 2 in. for pipes >1 1/2-in. nominal diameter. Chilled water, refrigerant, and brine piping systems: 1 in. insulation for pipes <=1 1/2-in. nominal diameter, 1 1/2 in. insulation for pipes >1 1/2-in. nominal diameter. Steam piping: 1 1/2 in. insulation for pipes <=1 1/2-in. nominal diameter, 3 in. insulation for pipes >1 1/2-in. nominal diameter.
 - Exception: Pipe insulation is not required for factory-installed piping within HVAC equipment.
 - Exception: Pipe insulation is not required for piping that conveys fluids having a design operating temperature range between 55 degrees F and 105 degrees F.
 - Exception: Pipe insulation is not required for piping that conveys fluids that have not been heated or cooled through the use of fossil fuels or electric power.
 - Exception: Pipe insulation is not required for runout piping not exceeding 4 ft in length and 1 in. in diameter between the control valve and HVAC coil.
- 12. Operation and maintenance documentation must be provided to the owner that includes at least the following information: a) equipment capacity (input and output) and required maintenance actions b) equipment operation and maintenance manuals c) HVAC system control maintenance and calibration information, including wiring diagrams, schematics, and control sequence descriptions; desired or field-determined set points must be permanently recorded on control drawings, at control devices, or, for digital control systems, in programming comments d) complete narrative of how each system is intended to operate.
- 13. Each supply air outlet or diffuser and each zone terminal device (such as VAV or mixing box) must have its own balancing device. Acceptable balancing devices include adjustable dampers located within the ductwork, terminal devices, and supply air diffusers.
- 14. Service water heating equipment must meet minimum Federal efficiency requirements included in the National Appliance Energy Conservation Act and the Energy Policy Act of 1992, which meet or exceed ASHRAE 90.1 Code. New service water heating equipment can be assumed to meet these requirements.
- 15. Water-heating equipment must be provided with controls that allow the user to set the water temperature to 110 degrees F for dwelling units and 90 degrees F for other occupancies. Controls must limit output temperatures of lavatories in public facility restrooms to 110 degrees F.
- 16. Thermostats controlling both heating and cooling must be capable of maintaining a 5 degrees F deadband (a range of temperature where no heating or cooling is provided).
 - Exception: Deadband capability is not required if the thermostat does not have automatic changeover capability between heating and cooling.
 - Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
- 17. Stair and elevator shaft vents must be equipped with motorized dampers capable of being automatically closed during normal building operation and interlocked to open as required by fire and smoke detection systems. All gravity outdoor air supply and exhaust hoods, vents, and ventilators must be equipped with motorized dampers that will automatically shut when the spaces served are not in use.
 - Exception: Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height above grade.
 - Exception: Ventilation systems serving unconditioned spaces.

Statement of Special Inspections

Project:	Bowl Portland		
Location:	58 Alder Street, Portland, Maine		
Owner:	Bowl Portland, LLC		
Design Pro	fessional in Responsible Charge: C	arolyn C. Bird, PE	
Special Insp Inspection s the identity	ent of Special Inspections is submitted a ection and Structural Testing requirement ervices applicable to this project as well of other approved agencies to be retained for Special Inspections encompass the folkow Structural Architectural	ats of the Building Code. I as the name of the Specined for conducting the sowing disciplines: Mechanical/Electrical/Pl	It includes a schedule of Special ecial Inspection Coordinator and se inspections and tests. This
the Building discrepancie discrepancie the Register	Inspection Coordinator shall keep record of Official and the Registered Designes shall be brought to the immediate as are not corrected, the discrepancies shed Design Professional in Responsible Corrof his or her responsibilities.	n Professional in Resp attention of the Contr nall be brought to the atte	consible Charge. Discovered ractor for correction. If such antion of the Building Official and
Interim repo	orts shall be submitted to the Building Charge.	g Official and the Reg	istered Design Professional in
	ort of Special Inspections documenting c any discrepancies noted in the inspectio cupancy.		
Job site safe	ty and means and methods of construction	on are solely the respons	ibility of the Contractor.
Interim Repo	ort Frequency: As Required		or per attached schedule.
Prepared by:			
	rd, PE, Casco Bay Engineering		
(type or print na	me)		
(Al		1/25/10	
Signature		Date	Design Professional Seal
		—	
Owner's Auth	norization:	Building Official's Acco	eptance:
Signature	Date	Signature	Date
g	Date	Signature	Date

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

Soils and Foundations
Cast-in-Place Concrete
Wood Construction
Precast Concrete
Exterior Insulation and Finish System
Masonry
Mechanical & Electrical Systems
Structural Steel
Cold-Formed Steel Framing
Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
Special Inspection Coordinator Carolyn C. Bird, P.E.	Casco Bay Engineering	424 Fore Street Portland, ME 04101 207-842-2800 carolynb@cascobayengineering.com
Inspector Roger Domingo	S.W. Cole /Elite Inspections	286 Portland Road Gray, ME 04039-9586 207-657-2866 rdomingo@swcole.com
3. Inspector		
4. Testing Agency		
5. Testing Agency		
6. Other		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category

B

Quality Assurance Plan Required (Y/N)

Ν

Description of seismic force resisting system and designated seismic systems:

Steel Concentric Braced Frame and Masonry shear walls transfer lateral forces to the foundation.

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)

100 mph

Wind Exposure Category

C

Quality Assurance Plan Required (Y/N)

Ν

Description of wind force resisting system and designated wind resisting components: Steel Concentric Braced Frame and Masonry shear walls transfer lateral forces to the foundation.

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

Cast-in-Place Concrete

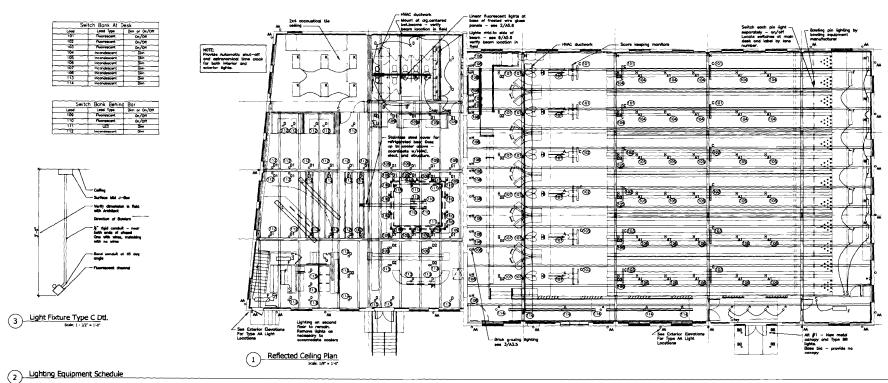
Ite	m	Agency # (Qualif.)	Scope
1.	Mix Design	#2 ACI-CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.
2.	Material Certification		
3.	Reinforcement Installation	#1 or #2 ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
4.	Post-Tensioning Operations		n/a
5.	Welding of Reinforcing		n/a
6.	Anchor Rods	#1 or #2	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.
7.	Concrete Placement	#2 ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
8.	Sampling and Testing of Concrete	#2 ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
9.	Curing and Protection	#2 ACI-CCI ICC-RCSI	Inspect curing, cold weather protection and hot weather protection procedures.
10.	Other:		

Structural Steel

Item		Agency # (Qualif.)	Scope
1.	Fabricator Certification/ Quality Control Procedures Fabricator Exempt	#2 AWS/AISC- SSI ICC-SWSI	Review shop fabrication and quality control procedures.
2.	Material Certification	#1 or #2 AWS/AISC- SSI ICC-SWSI	Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes
3.	Open Web Steel Joists		
4.	Bolting	#2 AWS/AISC- SSI ICC-SWSI	Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence. Continuous inspection of bolts in slipcritical connections.
5.	Welding	#2 AWS-CWI ASNT	Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds.
6.	Shear Connectors		n/a
7.	Structural Details	#1 or #2	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.
8.	Metal Deck		n/a
9.	Other:		

Wood Construction

Item		Agency # (Qualif.)	Scope
1.	Fabricator Certification/ Quality Control Procedures Fabricator Exempt		
2.	Material Grading		n/a
3.	Connections	#1	Inspect wood connections.
4.	Framing and Details	#1	Inspect wood framing compared to details.
5.	Diaphragms and Shearwalls		n/a
6.	Prefabricated Wood Trusses		n/a
7.	Permanent Truss Bracing		
8.	Other:		



Bowl Portland

DayMatero

100 Front Street Top Floor Sath Molne US 04530 207.671.6819 into Midawmatero.com

Consultants
Casco Bay Engineering
Structural Engineer

TJM Consulting Urban Dwellings Interior Design

TYPE	DESCRIPTION	LAMP CODE	MANUFACTURER & CATALOG NUMBER	MAX. WATIS	^
^	Pendant (rigid condult) mounted. Halogen, silver gray finith, adjustable die cast aluminum single lampholder system, rectangular die cast aluminum box, pendant length 36"	Philips 50PAR30S/HAL/FL2S 130voir - NO SUBSTITUE ALLOWED	RAS Lighting R90 + R14-1 + 83	50	
Α1	Pendant (rigid condult) mounted. Halogen, silver gray finith, adjustable die cast aluminum wa lampholder system, rectangular die cast aluminum bax, pendant length 36'	Two - Philips 75° AR305/HAL/FL25 130 volt - NO SUBSTITUE ALLOWED	lwo - RA6 Lightling R90 + One R14-3 + One 83	150	
•	ALTURE Surface mounted, medium base parcelain socket on metal rockway with screw in PARZO parrow spot warm white LED lamp. One socket every 12 inches. Approx. 6°6° per window, vertically mounted.	Eco-Story ES-HAR20-30MW www.eco- slory.com 207.774.9889	Wiremold Legrand 24008C-FW + 2428FW 12*O.C.	5	/11
c	Pendant (rigid condult) mounted fluorescent, single lamp 18. Nuorescent channel. Pendant length 30° Mount Channel at 45 deg.ongle w/lamp lacing up and away from bowlers - see Section 7/A3.3	Philips F32B/TL850/Alto	Columbia Lighting CH4-132-EU	26	
D	Surface mounted on ceiling, metal junction box and keyless parcelain socket.	Philips 50PAR305/HAL/FL26 130voit - NO SUBSTITUE ALLOWED	By Electrical Contractor	50	_
ום	Surface mounted on side of beam, metal function box and keyless parcalain socket.	Sylvania 60PAR16/HAL/NSP10 130voll - No Substitute Allowed	By Electrical Contractor	60	

YPE	DESCRIPTION	LAMP CODE	MANUFACTURER & CATALOG NUMBER	MAX. WATES	/H
D2	Surface mounted on ce lling , Hologen, silver gray finish, adjustable die cast aluminum two lampholder system, rectangular die cast aluminum bau.	Two - Philips 50PAR305/HAL/FL25 130voit - NO SUBSTITUE ALLOWED	By Electrical Contractor	100	==
E	Letter not used				-
ŗ	Pendant mounted, 120 volt, 18 fluorescent, 1 foot by 4 foot, wrap-around acrylic lens tixture, metal end caps.	(2) Philips F37B/1(830/AUX)	Day-Brite Lighting CAN232-120 + Pendonts	56	/f
G	Surface mounted 120 volt incondescent, medium base parcelain sockets on metal raceway with screw in PAR16 narrow spot Halogen lamps. One socket every 12 inches.	Sylvania SOPAR16/HAL/SP10 - 130volt No Substitute Allowed	WiremoldLegrand 24008C-FW + 2426FW 12"O.C.	50	/1
ĢI	ALL#11: Surface mounted 120 volt incondescent, medium base porcelain sockets on metal raceway with screw in PART6 narrow spot Hologen lamps. One socket every 12 inches.	Sylvania 50PAR16/HAL/SP10- 130volt No Substitute Allowed	Wiremold Legrand 24008 C-FW + 2426 FW 12*O.C.	50	/1
н	Surface mounted 120 voll incondescent, medium base parcelain socket on surface mounted metal junction box with screw in PAR 14 narrow spot Halogen lamp.	Sylvania 50PAR20/HAL/SP10 - 130vott	By Electrical Contractor	50	
1	Letter not used				_
1	Recessed linear 18 fluorescent wall grazing system.	Philips F32RV1L830/ALIO	Columbia Lighting CH4-132-EU	28	_
ĸ	Recessed in 2 x 4 gris ceiling, 18 (borescent, 2 toot x 4 foot, 4 form, gasketed kitchen light, invertiens for easier cleaning.	(4) Philips F32RVIL830/ALIO	Day-Brite Lighting 2DPWLG432-FS01(INVERTED)- UNV-1/3-E8-2W-PAF	112	
ι	Chain maunted theatrical lighting system		Chauvet Lighting		_

YPE	DESCRIPTION	LAMP CODE	MANUFACTURER & CATALOG NUMBER	WATS	/#
*	Surface mounted, 120 volt, halogen Incandescent, bar downlight	Sylvania 75PAR16/HAL/SP10 - 130voll Na Substitute Allowed	keyless porcelain socket on junction box	75	
N	Surface mounted 18 fluorescent under shelf light.	Philips F3216/1L830/AL10	Columbia Lighting UC 48-132-EU	38	
0	Letter not used				
,	Surface mounted under bar, LED, sirip (ght. 9000K diodes 4°a.c., continuous cleor ribbard lens, Remotely located 120v/24V o'Fan driver required. Dimmable - use compatible dimmer.	3000K (ED's included	Tokistar Lighting AV-MC4-LIW 3000K-AVC	3	/fi
Pì	ALT.84: Surface mounted above display shelves, LED, strip light, 300K diades 4°a.c., continuous abov ribbed lens. Remotely located 120v/24v G-Yan driver required. Dirmable - use compatible dirmer.	3000K LED's included	Tokistar Lighting AV-MC4-LIW 3000K-AVC	3	/ft
a	Surface mounted, 120 volt. xenori, 30 inch undercabinet task light. Control with dimmer.	3000k xenon Included	Juno Lighting UPX430-WH	40	_
AA	Exterior wall mounted, low voltage halogen, kanstormer located in junction box, utika long \$60.50 watt MR16 narrow spot, 18,000 hour tomp.	Ushio EXT/FG/Ultro Titan NO SUBSTITUTE ALLOWED	HK Lightling ZX16WM BK 120/12	55	
1.0	ALT.#1 & 42: Recessed in canopy, low voltage halogen, exterior downlight	Sylvania SOMR) 6/18/NFL25/C	USA Illumination 9788 21 50TW	55	
	Alt#13: Replace all 75 watt PAR30 tamps with dimmable, 27watt, warm white: 30degree beam, PAR38 LEO tamps.	9x3w-PAR38-E27-RS- 30WW www.eco-		27	





Date: 01 Feb. 10 Scale: 1/8" = 1'-0"

Drawing Title: RCP &

Lighting Plan

A7.1 Issue For Permit

INTERNAT BUILDING CORE		
WILD	(City, County, Township, etc.) DING LOCATION: (Street address):	
700	AWEID FEY: Indicated in the content of the content	ndalls ne condite iols providsiones tro (compresent
o Gelm Gilli	Hardware and the contract of t	
No.	DESCRIPTION 201-671-6820 SB Alder St.	Code Section
	Permit # 09-1408	
	136 - A-3 Type IIB OK-USE 1-9/ Fully sprinkled + about Construction bull all	howe lasseeff
0	Opening protection 704.8,12,14 - Exterior walls + 715	
(2)	Check cooping 803 - Interior wall + ale Riches	
0	Check section 803 - Interior wall + chy finishes.	
(T)	Opening protection 704.8,12,14-Exterior walls + 715 Check section 803-Interior wall + chy finishes. Stair to bosnot Buthrowns, 2nd fly prep area-sinte? Section 1018-2 mouns of egiss from 2nd flor Ok per	Tuble

ICC
INTERNATIONAL
CODE COUNCIL

Tuble -

433

Copyright, 2003, International Code Council, Inc. Reproduction by any means is prohibited. ICC is the trademark of International Code Council, Inc., and is registered in the U.S. Patent and Trademark Office. For additional forms, contact:

INTERNATIONAL CODE COUNCIL, INC. PHONE 1-800-786-4452 • WWW.ICCSAFE.ORG

hispections - concrete, woul, steel

216 each

Plumbing + (women's w. c.

CORRECTION LIST (cont'd.)					
No.	DESCRIPTION	Code Section			
-					

ADMINISTRATION (Chapter 1)

Complete construction documents (106.1, 106.2)



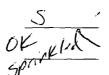
Signed/sealed construction documents (106.1, State laws vary)

BUILDING PLANNING (Chapte

OCCUPANCY CLASSIFICATION (30)

Single Occupancy (302.1)

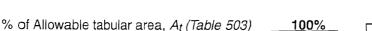
Mixed Occupancy (302.3)



GENERAL BUILDING LIMITATIONS (Ch

Apply Case 1 to determine the allowable height and area and permitted types single occupancy or nonseparated mixed occupancies. Apply Case 2 to deter permitted types of construction for a building containing separated mixed occ-

AREA MODIFICATIONS TO TABLE 5



% Increase for frontage, If (506.2)

% Increase for automatic sprinklers, Is (506.3)

Total percentage factor

Conversion factor 310 - 100% = 3.1%

Frontage (506.2)

Frontage (F) 175 ft. Perimeter (P)

Width of open space (W) = 30

% Frontage increase (Ii) = $\frac{9.79}{(506.2)}$ $f = 100 \left(\frac{175}{503} - 0.25\right) \frac{30}{30}$ $f = 100 \left[\frac{F}{P} - 0.25\right] \frac{W}{30}$

CASE 1 — SINGLE OCCUPANCY OR NONSEPARATED USES (302.3.1)

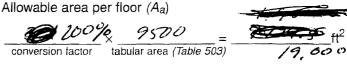
Using Table 503, identify the allowable height and area of the single occupancy or the most restrictive of the nonseparated mixed occupancies. Construction types that provide an allowable tabular area equal to or greater than the adjusted building area and allowable heights (as modified by Section 504) equal to or greater than the actual building height are permitted.

DETERMINE CONSTRUCTION TYPE

CHECK ALLOWABLE AREA (506.4)

Actual building area

4516.12 Adjusted building area actual building area + conversion factor



Actual building height

29' feet 2_stories

16.720 ft2 Total floor area (all stories)

Permitted types of construction All but 5B

Allowable floor area (all stories) Allowable area per floor

x X	υ 2 =	The ft ²
	number of stories (maximum 3)	38,000

Type of construction assumed for review (602.1.1)

Compliance verified (Single Occ. or Nonsep.)

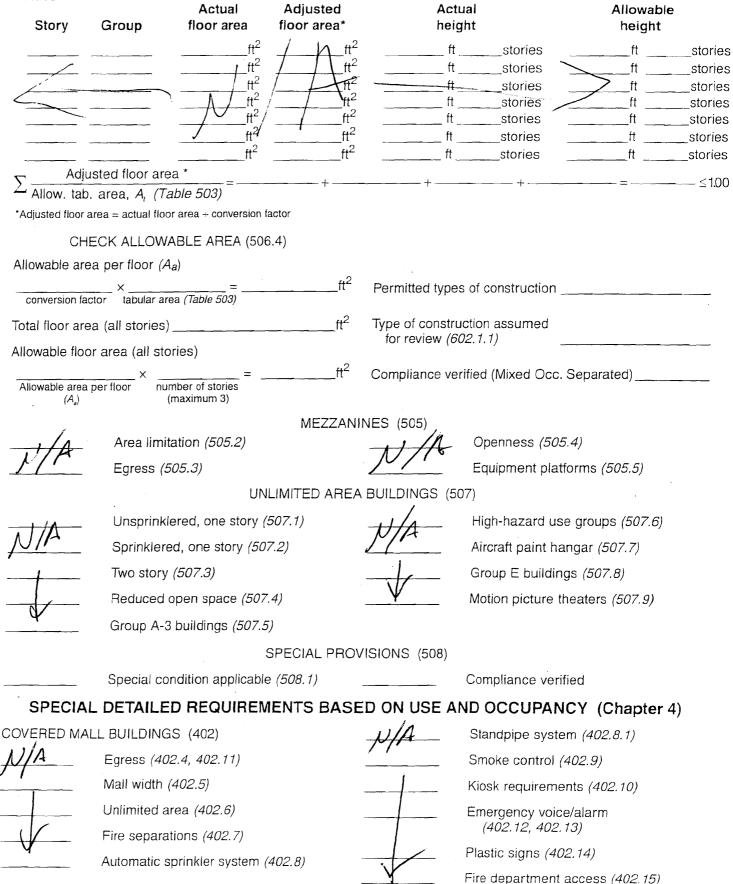
as called out -5-

3 - 200 10 increase

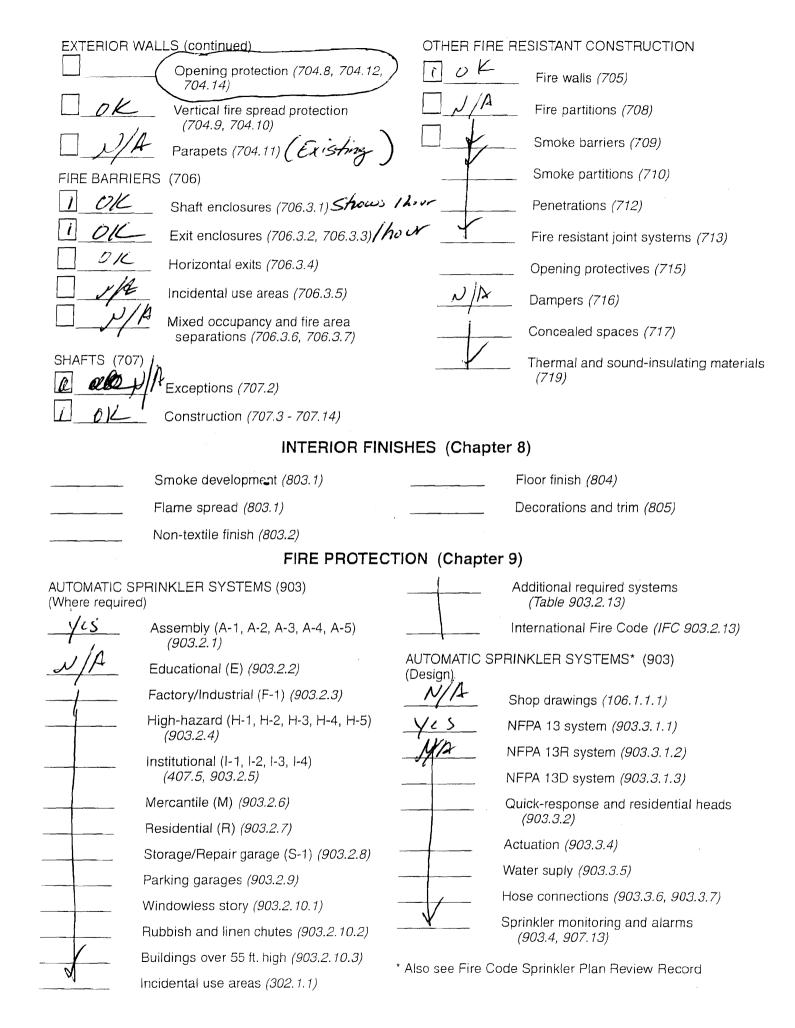
Sprinkless -

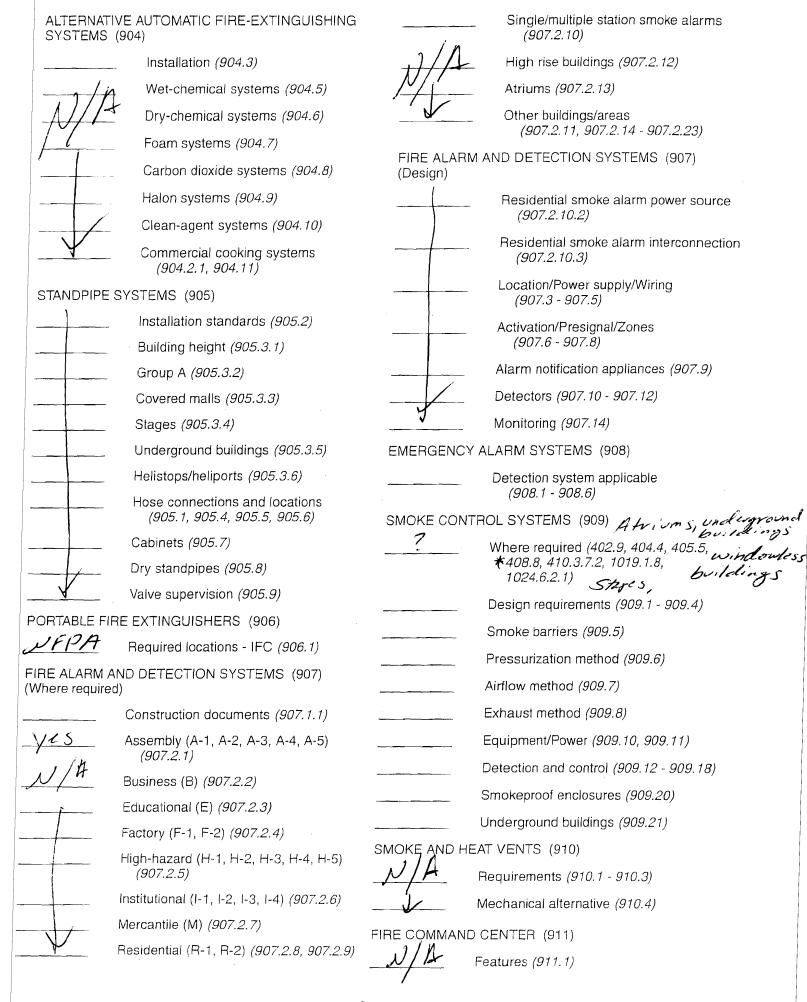
CASE 2 — MIXED OCCUPANCY SEPARATED USES (302.3.2)

Using Table 503, identify the allowable height and area of each of the separated uses within the building. Construction types that provide, for each story of the building, tabular areas (as modified by Section 506)which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504) equal to or greater than the actual height of the use are permitted.



HIGH-RISE BUILDINGS (403)		OTHER SPECIAL USE AND OCCUPANCY
-17/A	Automatic sprinkler system (403.2)	Underground structures (405)
	Fire-resistance rating reduction (403.3)	Motor vehicle related occupancies
	Automatic fire detection (403.5)	(406, 508)
	Emergency voice/alarm systems (403.6)	Group I-2 (407)
	Fire department communication (403.7)	Group I-3 (408)
	Fire command center (403.8)	Motion picture projection rooms (409)
	Elevators (403.9)	Stages and platforms (410)
	Standby power (403.10)	Special amusement buildings (411)
	Emergency power (403.11)	Aircraft-related occupancies (412)
	Stairway doors (403.12)	Combustible storage (413)
ATDUMO (40	Smokeproof exit (403.13)	
ATRIUMS (404)		Hazardous materials (307.9, 414)
- Joj / -	Atrium use (404.2) Automatic sprinkler system (404.3)	Groups H-1, H-2, H-3, H-4, and H-5 (415)
	Smoke control (404.4)	Application of flammable finishes (416)
	Enclosure (404.5)	Drying rooms (417)
	Standby power (404.6)	•
	Interior finish (404.7)	Organic coatings manufacturing (418)
<u> </u>	Travel distance (404.8)	
	E-RESISTANCE-RATED CONSTRUC	(Chapters 6, 7, 8, 9) CTION (Tables 601 & 602 and Chapter 7) BUILDING ELEMENTS (Table 601)
	indicates required rating in hours. NC ombustible construction required.	Structural frame (714)
<u>3B</u>	Construction classification (602)	
COMBUSTIBIL	ITY (602.2, 602.3, 602.4, 602.5, 603)	Interior bearing wans
	Exterior walls (Blaring walls)	Interior nonbearing walls
	Interior elements	Floor construction (711)
0_	Roof	D Roof construction (711)
FIRE-RESISTANCE RATINGS AND FIRE TESTS (703)		EXTERIOR WALLS (507, Table 602, 704, 706.6)
	Ratings / Combustibility (703.2, 703.4)	North East South West Fire
	Alternative methods (703.3, 718, 720, 721)	separation distance 25 +30 <5 <5
	(, , , , , , , , , , , , ,	Bearing / 1 / 0 / 1 / 1
		Nonbearing I O O O O O





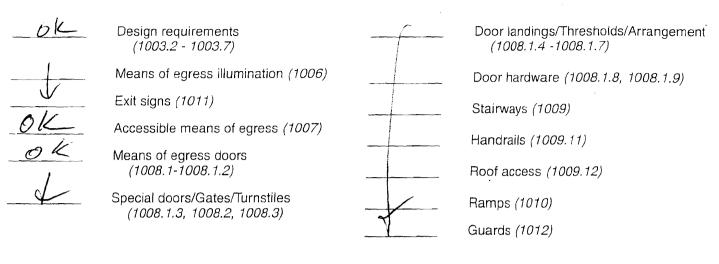
OCCUPANT NEEDS (Chapters 10, 11, 12)

MEANS OF EGRESS (Chapter 10)

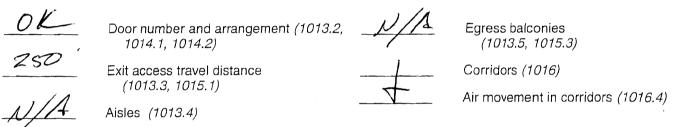
OCCUPANT LOAD (1004.1.2 and Table 1	1004.1.2)		CAPACITY OF EC (1005.1 and Table	GRESS COMPONE 9 1005.1)	ENŢS
Floor Sq.ft./ Occt.	Other	T-4-1	Egress width (incl	n/occupant)	
Location \div = Area person load	occt. loads	Total	Stairways _@	20.Z	
st - ()				components O. /	15
flood 14,000 / 3		——	CAPACITY		
					Other egress
			Location	Stairways	components
Lanes - (12 × 5)		60		10	
See Ask.os for calc.	. ——				
for calc.					
	101	tal-			
	43	3			
	-				
					
					
			NUMBER OF EXIT	TS (1018.1, 1018.2)
			Location	Required	Shown
			1st fly	2	3
			2 nd flr	2	
			101	B-25	tairs Reg
				-for 2"	floor
					

MEANS OF EGRESS (continued)

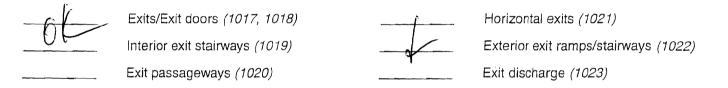
GENERAL MEANS OF EGRESS



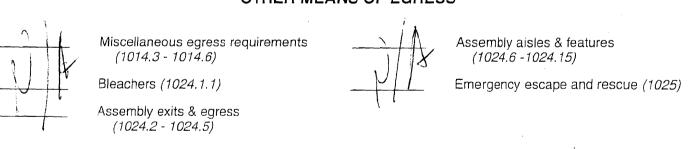
EXIT ACCESS



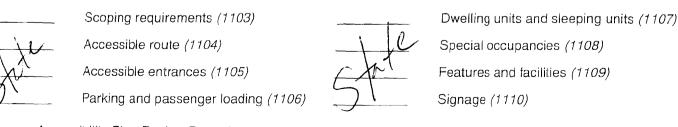
EXITS / EXIT DISCHARGE



OTHER MEANS OF EGRESS



ACCESSIBILITY* (Chapter 11)



^{*}Also see Accessibility Plan Review Record

INTERIOR ENVIRONMENT (Chapter 12)

Ventilation openings (1203)	N/A_	Sound transmission (1207)
Temperature control (1204)	<u>ó</u> K	Interior space dimensions (1208)
Lighting (1205)	NA	Access to unoccupied spaces (1209)
Yards or courts (1206)	_oK_	Surrounding materials (1210, 2509)
BUILDING ENVELOP *See Energy Conservat	` .	
EXTERIOR WA		/ / /
Performance requirements (1403)		Exterior wall coverings/MCM's (1405, 1407)
Materials (1404)		Combustible material restrictions (1406)
ROOF ASSEMBLIES AND ROO	FTOP STRUC	CTURES (Chapter 15)
Weather protection (1503)		Materials (1506)
Flashing (1503.2, 1507.2.9, 1507.3.9,		Roof coverings (1507)
1507.5.6, 1507.7.6, 1507.8.7, 1507.9.8)		Roof insulation (1508)
Performance requirements (1504)		Rooftop structures (1509)
Fire classification (1505)		Reroofing (1510)
STRUCTURAL SYSTE	MS (Char	oters 16, 17, 18)
STRUCTURAL D		
STRUCTURAL DESIGN CALCULATIONS		Live load reduction
Submitted for all structural members		(1603.1.1, 1607.9, 1607.10)
(106.1, 106.1.1)		Roof live loads (1603.1.2, 1607.11)
DESIGN LOADS ON CONSTRUCTION DOCUMENTS	Roof snow loa	nds (1603.1.3, 1608)
(1603)		Ground snow load, P_g (1608.2)
Uniformly distributed floor live loads (1603.1.1, 1607)		If $P_g > 10$ psf, flat-roof snow load, P_f (1608.3)
Floor Area Use Loads Shown		If $P_g > 10$ psf, snow exposure factor, C_e (Table 1608.3.1)
		If $P_g > 10$ psf, snow load importance factor, I_s (Table 1604.5)
		Roof thermal factor, Ct (Table 1608.3.2)
		Sloped roof snowload, Pc (1608.4)

DESIGN LOADS (continued)	Seismic design category (1616.3)
Wind loads (1603.1.4, 1609)	Basic seismic-force-resisting system (Table 1617.6.2)
Design option utilized (1609.1.1, 1609.6)	Response modification coefficient, R,
Basic wind speed (1609.3)	and deflection amplification factor, C. (Table 1617.6.2)
Building category and wind importance factor, <i>I_w (Table 1604.5, 1609.5)</i>	Analysis procedure (1616.6, 1617.5)
Wind exposure category (1609.4)	Design base shear (1617.4, 1617.5.1)
Internal pressure coefficient (ASCE 7)	Flood loads (1603.1.6, 1612)
Component and cladding pressures (1609.1.1, 1609.6.2.2)	Flood hazard area (1612.3)
Main force wind pressures (1609.1.1,	Elevation of structure
1609.6.2.1)	Other loads
Earthquake design data (1603.1.5, 1614 - 1623)	Concentrated loads (1607.4)
Design option utilized (1614.1)	Partition loads (1607.5)
Seismic use group ("Category")	Impact loads (1607.8)
(Table 1604.5, 1616.2)	Misc. loads (<i>Table 1607.6</i> , <i>1607.6.1</i> ,
Spectral response coefficients, S_{DS} & S_{D1} (1615.1)	1607.7, 1607.12, 1607.13, 1610, 1611, 2404)
Site class (1615.1.5)	
QUALITY ASSURAN	NCE (Chapter 17)
Approvals/Research report(s)(1703,	Wall panels and veneers/EIFS
1703.4.2) Report No	(1704.10, 1704.12)
Owner's special inspection program specified (1704.1.1)	Sprayed fire-resistant materials (1704.11)
Prefabricated items (1704.2)	Quality assurance plan - Seismic/Wind (1705, 1706)
Steel construction (1704.3)	Seismic resistance (1707)
Concrete construction (1704.4)	
Masonry construction (1704.5)	Structural testing/Observations (seismic) (1708, 1709)
Wood construction (1704.6)	Testing (other) (1710 - 1715)
Prepared fill and foundations (1704.7, 1704.8, 1704.9)	
, SOILS AND FOUNDATION	ONS (Chapter 18)
exishing Soils investigations/Reports	Footings and foundations (1805)
(1802.1, 1802.6)	Retaining walls (1806)
Soil classification (1802.3)	
Excavation, grading and fill (1803)	Dampproofing and waterproofing (1807)
oad-bearing values (1804)	Foundations (other types) (1808 - 1812)

STRUCTURAL MATERIALS (Chapters 19, 21, 22, 23)

/ #	CONCRETE	(Chapter 19)	
N/F	Plain and reinforced concrete design/construction standard specified (1901.2, 1908)		Hot weather and cold weather curing specified (1905.12,1905.13)
	Construction documents (1901.4)		Seismic design (1910)
- C	Minimum concrete strength (Table 1904.2.2[2])		Slab provisions (1911)
,	MASONRY	(Chapter 21)	
NA	Design method, construction standard specified (2101.2)		Cold weather and hot weather construction specified (2104.3, 2104.4)
	Construction documents (2101.3)		Seismic design (2106)
	Construction materials (2103)		Glass unit masonry (2110)
	Mortar type (2103.7)		Fireplaces/Heaters/Chimneys (2111, 2112, 2113)
/	STEEL (C	hapter 22)	
N/A	Structural steel design/construction standard specified (2205)	- 	Cold-formed steel design/construction standard specified (2209)
	Open-web steel joist design/construction standard specified (2206)		Light framed cold-formed steel design/ construction standard specified (2210)
	Steel cable structures (2207)		Wind/seismic design of light-framed,
	Steel storage racks (2208)		cold-formed steel shear walls (2211)
	WOOD (C	hapter 23)	
	Design method option used (2301.2)		Heavy timber construction (2304.10)
	NDARDS / CONSTRUCTION S (2303 - 2306)		Shear walls and diaphragms (2305, 2306)
	Lumber <i>(2303.1.1)</i>		L LIGHT-FRAME CONSTRUCTION
	Wood I-joists (2303.1.2)	(2308)	Limitations satisfied (2308.2)
	Glue laminated timbers (2303.1.3)		Wind/Seismic requirements (2308.2.1,
·	Wood structural panels (2303.1.4, 2304.6, 2304.7)		2308.2.2, 2308.11, 2308.12)
	Fiber-, hard-, & particle-, boards		Braced walls (2308.3, 2308.9.3)
	(2303.1.5 - 2303.1.7)		Foundation anchorage (2308.3.3, 2308.6)
	Decay and termite protection (2303.1.8, 2304.11)	OK	Floor joists (<i>Tables 2308.8</i> [1], 2308.8[2])
	Structural composite lumber (2303.1.9)		Wall studs (Table 2308.9.1)
	Fire-retardant-treated wood (2303.2)		Girders (Tables 2308.9.5, 2308.9.6)
	Hardwood plywood (2303.3)		Ceiling joists (Tables 2308.10.2[1],
	Metal plate connected trusses (2303.4)		2308.10.2[2])
	Joist hangers and connectors (2303.5)	-	Roof rafters (<i>Tables 2308.10.3.[1] - 2308.10.3[6]</i>)
	Fasteners and fastening (2303.6, 2304.9, Table 2304.9.1)	·	Roof uplift (2308.10.1)

NONSTRUCTURAL MATERIALS (Chapters 24, 25, 26)

GLASS AND GLAZING (Chapter 24)

	Sloped glazing and skylights (2405)	-	Safety glazing (2406, 2407, 2408, 2409
	GYPSUM BOARD AI	ND PLASTER	(Chapter 25)
	Gypsum board materials (2506, Table 2506.2)		_ Plaster (2507, 2508, 2510 - 2513)
	PLASTIC	C (Chapter 26	6)
FOAM PLA	STIC INSULATION (2603)		Special approval (2603.8)
	_ Labeling <i>(2603.2, 2603.5.6)</i>	MISCELLAN	NEOUS PLASTICS
,	Surface-burning characteristics (2603.3, 2603.5.4)		Interior finish and trim(2604)
	Thermal barrier (2603.4)		Plastic veneer (2605)
	Exterior walls/Roofs (2603.5, 2603.6)	<u></u>	Light-transmitting plastics (2606 - 2611)
	BUILDING SERVICES*	(Chapter	rs 27, 28, 29, 30)
	ELEVATORS AND CONVE	` .	•
	Construction standard specified (3001.2	")	Hoistway venting <i>(3004)</i>
	Hoistway enclosures (3002)		Conveying systems (3005)
	Opening protectives (3002.1.1)		Machine rooms (3006)
	Emergency operations (3003)		
* Also see Ele	ectrical (Ch.27), Mechanical (Ch.28) and Plun	nbing (Ch.29) Pla	an Review Records
S	SPECIAL DEVICES AND CO	NDITION:	S (Chapters 31, 34)
1 / u	SPECIAL CONSTRU	JCTION (Cha	apter 31)
NA	Membrane structures (3102)	PEDESTRIAN	WALKWAYS AND TUNNELS (3104)
i	Awnings and canopies/Marquees		Construction and use (3104.3, 3104.4)
	(3105, 3106)		Separation (3104.5, 3104.10)
	Signs (3107)		Public way <i>(3104.6)</i>
—	Radio and television towers (3108)		Egress/Ventilation
	Swimming pool enclosures (3109)	UDEO (OL	(3104.7 - 3104.9, 3104.11)
	EXISTING STRUCT	JRES (Chap	ter 34)
	Additions, alterations, repairs (3403)		Accessibility (3409)
	Fire escapes (3404)	<u> </u>	Compliance alternatives (3410)
	Change of occupancy (3406)		

BUILDING EVALUATION SUMMARY (Table 3410.7)

Existing occupancy			Proposed occupancy _		
Year building was constructed				Heig	ht in feet
Type of construction					
Percentage of frontage			Corridor wall rating		
Completely suppressed:		No	Required door closers:	Yes	No
Compartmentation:		No			
Fireresistance rating of vertica Type of HVAC system			serving number of floors		
Automatic fire detection:	Yes		type and location		
Fire alarm system:	Yes		type		
Smoke control:	Yes	No,			
Adequate exit routes:	Yes	No	5 7	Yes	
Maximum exit access travel dis	stance		Elevator controls:	Yes	
Means of egress emergency lig	ghting: Yes	No	Mixed occupancies:	Yes	No
Safety		Fire	Means	S	General
parameters		safety (FS)	of egress	(ME)	safety (GS)
3410.6.1 Building height					
3410.6.2 Building area					
3410.6.3 Compartmentation					
3410.6.4 Tenant and dwelling u	ınit separations			·	
3410.6.5 Corridor walls					
3410.6.6 Vertical openings					
3410.6.7 HVAC systems				·	
3410.6.8 Automatic fire detection	on				
3410.6.9 Fire alarm system					
3410.6.10 Smoke control		* * * *			
3410.6.11 Means of egress		* * * *			
3410.12 Dead ends		* * * *			
3410.13 Max. exit access travel	distance	* * * *			
3410.6.14 Elevator control					
3410.6.15 Means of egress em	ergency lighting	* * * *			
3410.6.16 Mixed occupancies			* * * *		
3410.6.17 Automatic sprinklers			÷ 2 =		
3410.6.18 Incidental use area p	rotection				
Building score — total value					
* * * * No applicable value to be	inserted.				
	BUILDING SAF	ETY EVALUAT	ION SCORE (Table 341	(0.9)	
Formula Table 34	110.7	Table 3410.8	Score	Pass	Fail
FS-MFS ≥ 0	(FS) —		(MFS) =	_	
ME-MME ≥ 0	(ME) —		(MME) =		
GS-MGS ≥ 0	(GS) —		(MGS) =		
FS = Fire Safety		MFS	= Mandatory Fire Safe	tv	
ME = Means of Egress		MME	= Mandatory Means of	•	
GS = General Safety		MGS	= Mandatory Means of	-	
				-	
		APPENDIC	ES A - J		
Appendices	s adopted (101.2.1	')	Compli	ance verified	
	, , , , , , , ,	, –	= -····p··		



Certificate of Design Application

- Allen	1 .
From Designer: Day Matero S	tudio
Date: December 10	2009
Job Name: Bowl Portland	
Address of Construction: 58 Alder St.	
2002 Into mation at P	wilding Code
2003 International B Construction project was designed to the b	
Building Code & Year 186- 2003 Use Group Classification ((s) Assembly A-2/A-3
Type of Construction	
Will the Structure have a Fire suppression system in Accordance with Sec	ction 903.3.1 of the 2003 IRC
Is the Structure mixed use? No If yes, separated or non separa	
Supervisory alarm System? Geotechnical/Soils report req	
	umeu: (See Section 1802.2)
Structural Design Calculations - Refer to Structural	Live load reduction
Structural Design Calculations - Refer to Structural Drawing and 50 Submitted for all structural members (106.1-106.11)	Roof live loads (1603.1.2, 1607.11)
Submitted for all structural memoria (100.1 – 100.11)	Roof snow loads (1603.7.3, 1608)
Design Loads on Construction Documents (1603)	Ground snow load, Pg (1608.2)
Uniformly distributed floor live loads (7603.11, 1807) Floor Area Use Loads Shown	If Pg > 10 psf, flat-roof snow load py
	If $Pg > 10$ psf, snow exposure factor, C_{e}
	If $Pg > 10$ psf, snow load importance factor, I_c
***************************************	Roof thermal factor, _G (1608.4)
	C.F
Wind loads (1603.1.4, 1609)	Sloped roof snowload, _{P3} (1608.4)
Design option utilized (1609.1.1, 1609.6)	Seismic design category (1616.3)
Basic wind speed (1809.3)	Basic seismic force resisting system (1617.6.2) Response modification coefficient, Rt and
Building category and wind importance Factor, In	· · · · · · · · · · · · · · · · · · ·
table 1604.5, 1609.5) ————————————————————————————————————	deflection amplification factor _{Cd} (1617.6.2)
Internal pressure coefficient (ASCE 7)	Analysis procedure (1616.6, 1617.5) Design base shear (1617.4, 16175.5.1)
Component and cladding pressures (1609.1.1, 1609.6.2.2)	Flood loads (1803.1.6, 1612)
Main force wind pressures (7603.1.1, 1609.6.2.1)	,
Earth design data (1603.1.5, 1614-1623)	Flood Hazard area (1612.3)
Design option utilized (1614.1)	Elevation of structure
Seismic use group ("Category")	Other loads
Spectral response coefficients, SDx & SD1 (1615.1)	Concentrated loads (1607.4)
Site class (1615.1.5)	Partition loads (1607.5)
	Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404



Accessibility Building Code Certificate

Designer:	Day Matero Studio
Address of Project:	58 Alder St. Portland, ME
Nature of Project:	Interior renovations and exterior
_	inprovements for a 12 lane
	10 pin bowling center

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.

	Signature:	
SCHOED MONIFECT	Title:	Principal
(SEAL) (A DAVID S. MATERO No. 2705)	Firm:	Day Matero studio
OF MAIN	Address:	100 Front St. Top Flow
		Bath, ME 04530
	Phone:	207-671-6820

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Certificate of Design

Date:	December 10, 2009	
From:	Day Matero studio	
These plans and /	or specifications covering construction work on:	
Bowl	Portland, 58 Alder Street	

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the 2003 International Building Code and local amendments.

SON AROS	Signature:	CA
DAVID S.	Title:	Principal
(SEAL) * MATERO No. 2705	Firm:	Day Mater Studio
OF MAINE	Address:	100 Front Steet Top Flow
	-	Bath, ME 04530
	Phone:	207-671-6820

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

DayMatero : And A

100 Front Street Top Floor Bath, Maine US 04530 207.671.6819 daymatero.com

December 10, 2009

Ms. Jeanie Bourke Code Enforcement Officer City of Portland, Maine 389 Congress Street Portland, ME 04101

Re: Bowl Portland – 58 Alder Street General Building Permit Application, Accessibility Building Code Certificate, Certificate of Design

Dear Jeanie,

Please find the enclosed applications for the Bowl Portland interior fit-out and exterior improvements at 58 Alder Street in Portland. Also included are one complete full size set of drawings and one CD-rom of pdf files. We met to review this project some time ago, and along with comments from the State Fire Marshal's office and the City of Portland Fire Department, the drawings have been revised based on those meetings.

This set is also being reviewed by the State Fire Marshal's Office, any comments they have will be forwarded to you for your information.

Enclosed applications (and check in the amount of \$5,420) include the General Building Permit Application, Certificate of Design, and Accessibility Building Code Certificate.

Thank you for your help in the review of this project.

Sincerely,

David Matero, AIA, LEED AP

Cc: Charlie Mitchell, Justin Alfond, Dale Akeley

Architecture - Lighting Design

DayMatero

100 Front Street Top Floor Bath, Maine US 04530 207.671.6819

To:	Jeanie Bou	rke		From:	David Matero david@daymatero.com 207.671.6820
Address:	Code Enfor City of Port 389 Congre Portland, M	ess St.	cer	Date:	December 10, 2009
Subject:	Bowl Portla	nd		Job #:	09.017
Copies	Date	Number	Description		
1	12.07.09		Full size set	of Issue dr	awings
ì	12.07.09	-	CD rom of drawings – pdf files		
1	12.10.09	-	Application and payment		
					_
Comments	i <u>:</u> n and payme	ent under sep	oarate cover		

From:

"David Matero" <david@daymatero.com>

To:

"'Tammy Munson'" <TMM@portlandmaine.gov>

Date:

12/30/2009 4:13:37 PM

Subject:

FW: 58 Alder Street, Bowl Portland

Tammy,

Below is Jeanie's response to the summary of our meeting where we discussed the single means of egress from the second floor.

We referenced section 1014, table 1014.1, spaces with one means of egress where the second floor has 9 occupants and type A buildings have a maximum occupant load of 50 before 2 are required. The stairs rated one hour. I think the provision in table 1018.2 allowing one exit if 1 story and less than 50 occupants might be able to be used, too. Another option is to consider this a mezzanine (as the State Fire Marshal is) level.

The State Fire Marshal's office considers the second floor a mezzanine because of its accessory use and because the public is not allowed. I am attaching my summary of that meeting for your information.

David

David S. Matero, AIA, LEED AP

DayMatero studio

100 Front Street

Top Floor

Bath, ME 04530

david@daymatero.com

http://www.daymatero.com/

207.671.6820

From: David Matero [mailto:david@daymatero.com]

Sent: Friday, September 25, 2009 12:57 PM

To: 'Jeanie Bourke'

Subject: RE: 58 Alder Street, Bowl Portland

Thank you, Jeanie. I had a good meeting with the State Fire Marshal's office today and will forward a summary of that meeting to you later today.

David

David S. Matero, AIA, LEED AP

DayMatero studio

100 Front Street

Top Floor

Bath, ME 04530

david@daymatero.com

http://www.daymatero.com/

207.671.6820

From: Jeanie Bourke [mailto:JMB@portlandmaine.gov] Sent: Thursday, September 24, 2009 2:26 PM To: david@daymatero.com; jalfond@gmail.com; votemitchell@gmail.com; eprojec1@maine.rr.com Subject: Re: 58 Alder Street, Bowl Portland

Thank you David,

I agree with the summary of our meeting, please let me know if any issue arises from your future meetings so that I may review this per the IBC 2003.

Also, I was looking at the use classification and think this may have a dual use since it really will be a restaurant with dance/bowling alley. Maybe it should be A-2/A-3. I don't believe this will affect any of the code discussions thus far, but it will more clearly describe the activities involved.

Keep me informed....

Thanks

Jeanie

Jeanie Bourke Code Enforcement Officer/Plan Reviewer

City of Portland Planning & Urban Development Dept./ Inspections Division 389 Congress St. Rm 315 Portland, ME 04101 jmb@portlandmaine.gov (207)874-8715

>>> "David Matero" <david@daymatero.com> 09/24 11:44 AM >>>

Jeanie,

Attached is a summary of our meeting yesterday. Thank you for your help in the review of this project.

Sincerely,

David Matero

David S. Matero, AIA, LEED AP

DayMatero studio

100 Front Street

Top Floor

Bath, ME 04530

david@daymatero.com

http://www.daymatero.com/

207.671.6820

DayMatero

.

100 Front Street Top Floor Bath, Maine US 04530 207.671.6819 daymatero.com

September 14, 2009

Ms. Jeanie Bourke Code Enforcement Officer City of Portland, Maine 389 Congress Street Third Floor Portland, ME 04101

Re: Bowl Portland 58 Alder Street

Dear Jeanie,

Thank you for meeting with me yesterday to review the Bowl Portland project at 58 Alder Street. The following summarizes our discussion regarding the project and the attached drawing is included for your information:

- The building, within a B-7 zone, is considered a construction type IIIB and an occupancy classification type A-3
- For purposes of reviewing for the Maine State Internal Plumbing Code, the project will be considered a Restaurant, Pub, Lounge. A total occupancy of 467 persons, 3 men's water closets and 2 urinals would be required. 4 Female water closets are required, but the number must be at least equal to men's fixtures, so 5 are required. 3 Lavatories each are required. (Please note that the attached floor plan will be revised per these requirements)
- Type IIIB buildings must have 2-hour rated perimeter bearing walls. The
 existing building has 3 layers of brick, a total of 12" thick, and meets the
 required 2-hour rating.
- The building will be fully sprinklered.

- DayMatero studio (DMS) will meet with the Captain Keith Gaurtreau, Portland Fire Prevention Officer
- DMS will meet with the State Fire Marshal's office. (A meeting has been schedule for Friday September 25).
- Travel distances and remoteness distances were discussed and look acceptable.
- The occupancy load was reviewed and looks acceptable.
- The single egress from the second floor was discussed and looks acceptable.
- The kitchen and bar will be designed and detailed by a food service consultant.

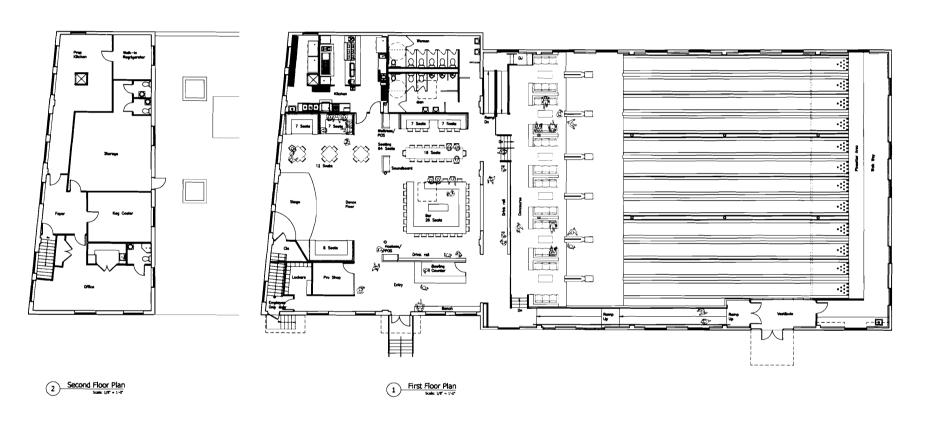
Thank you for your help in the review of this project. Please feel free to contact me if you have any questions.

Sincerely,

David Matero, AIA, LEED AP 207.671.6820

Cc: Justin Alfond, Charlie Mitchell, Dale Akeley

Encl: Drawing



DayMatero

Architecture Lighting Design 100 front Seal Trop Nor State 100 front Seal Trop Nor St

Program of Spaces (1st Fir)

Brothing limins, approach, 6,530 of out deliberty production in 1,200 of Brothing limits and production 1,200 of Brothing Control 1,275 of (64 annits)

Seeling and denon floor 1,275 of (64 annits)

Seeling and denon floor 1,275 of (64 annits)

Seeling and denon floor 1,275 of (64 annits)

Seeling Counter 300 of Brothing Counter 100 of Grey 375 of Tolket 1,500 of 1,1225 of Communication 1,1270 of 1,1225 of Communication 1,1270 of 1,1225 of Communication 1,1270 of 1,1270 of

Program of Spaces (2nd Flr)

580 of 530 of 435 of 135 of 250 of 1,980 of 2,525 of

Office Storage Prep (Richen Walk-in Ref Keg Cooler Tollets Total Net SF Green SF

Job Number: 09.017
Date: 14.5ep.09
Scale: 1/8" = 1'-0"
Drawing Title:
Proposed

A.1

Design
Meeting

Floor Plans

DayMatero

.

100 Front Street Top Floor Bath, Maine US 04530 207.671.6819 daymatero.com

September 25, 2009

Mr. Ronald Peaslee Office of the State Fire Marshal 500 Civic Center Drive Augusta, Maine 04330

Re: Bowl Portland 58 Alder Street

Dear Ronald,

Thank you for meeting with me today to review the Bowl Portland project at 58 Alder Street. The following summarizes our discussion regarding the project and the attached drawing is included for your information:

- The building is considered a construction type III (200) ordinary hazard.
- The building will be fully sprinklered.
- The common path of travel was discussed in detail. New assembly
 occupancies may only travel 20' on a common path before separate
 distinct paths are available. The open plan concept is helpful, and the
 layout of exit signage will be very important so that multiple paths are
 identified from the bowling center.
- The door to the second floor exit stairway is not necessary as a first floor egress.
- The occupancy load was reviewed and looks acceptable.

- The single egress from the second floor was discussed and looks acceptable only if the second floor remains as designed. The second floor may not be used for any public uses unless a second means of egress is created. The second floor is considered a mezzanine and the total occupant load may not be more than 10 (it is currently designed for 9).
- The ramp from the ADA entrance must be enlarged to account for the occupant load. When enlarged, it will create the need for a center railing on the ramp.
- DMS will contact Eric Ellis at the State Fire Marshal's Office to review whether the space under the bowling can be protected and/or sprinklered.
- Handrail details of ADA stairs were discussed.

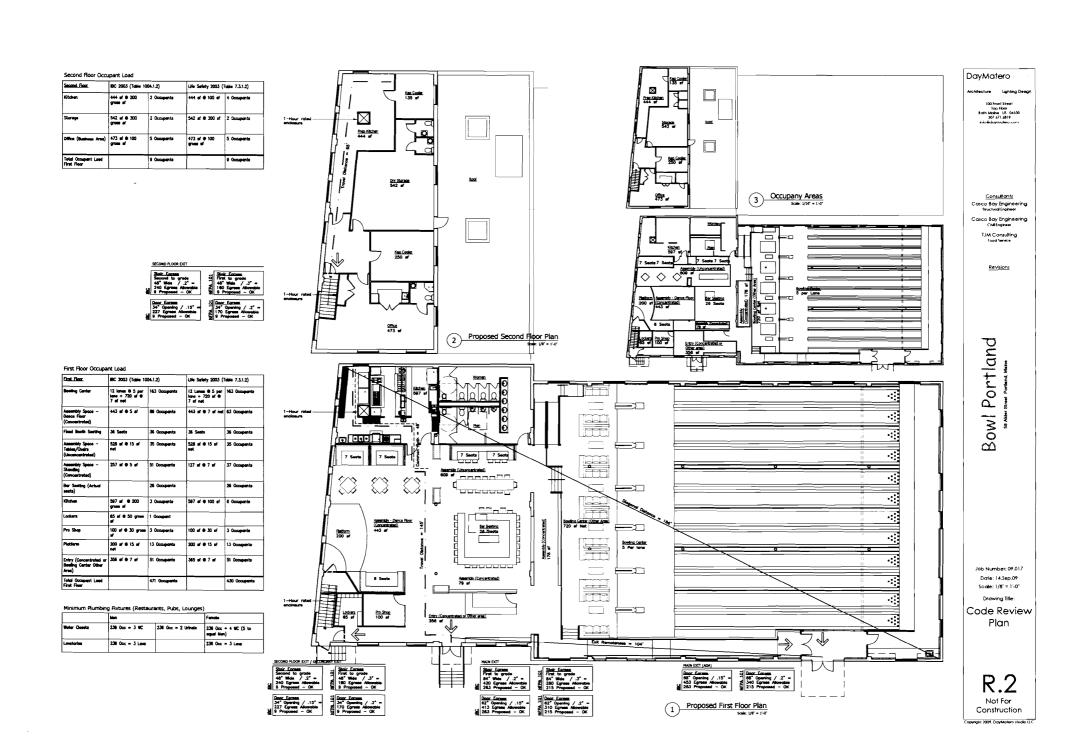
Thank you for your help in the review of this project. Please feel free to contact me if you have any questions.

Sincerely,

David Matero, AIA, LEED AP 207.671.6820

Cc: Justin Alfond, Charlie Mitchell, Dale Akeley

Encl: Drawing



From:

"David Matero" <david@daymatero.com>

To:

<tmm@portlandmaine.gov> 12/22/2009 4:20:56 PM

Date: Subject:

Bowl Portland - 58 Alder Street

Tammy,

I just spoke with Jeanie Bourke regarding the review of Bowl Portland. She mentioned that you would be reviewing the project as Jeanie is going on vacation until Jan. 6.

For your information, I received comments from the State Fire Marshal's office regarding the package. The comments are as follows:

- 1. 4' landing required at top of interior stairs (I addressed this in addendum that will be forwarded tomorrow).
- 2. Handrails required both sides of all stairs (addressed in addendum).
- 3. Ramp required to stage. I am waiting on a response from the State Fire Marshal's office. We hope to detail a demountable ramp because the stage is strictly for live music and we would prefer to not install a permanent ramp. I will let you know the response.
- 4. Occupant load of 446 calculated; 2/3 of occupant load shall exit through main entrance requiring that the front steps be widened by 6" (addressed in addendum).

Please call me if you have any questions. I had met previously with Jeanie and reviewed this with her. Since that review the project has changed very little in scope. We open bids the end of December and the owner's lease begins the first of the year so if there is anything I can to do help your review please contact me.

Thank you.

Sincerely,

David Matero

David S. Matero, AIA, LEED AP

DayMatero studio

100 Front Street

Top Floor

Bath, ME 04530

<mailto:david@daymatero.com> david@daymatero.com

http://www.daymatero.com/

207.671.6820

DayMatero

100 Front Street Top Floor Bath, Maine US 04530 207.671.6819 daymatero.com

December 28, 2009

Mr. Ronald Peaslee State Fire Marshal's Office 500 Civic Center Drive Augusta, Maine 04330

Re: Bowl Portland – 58 Alder Street, Portland, Maine Revision to Drawings

Dear Ronald,

I am in receipt of your comments dated December 17, 2009 regarding the Bowl Portland project.

A 4' landing was added at the top of interior stairs and was indicated in Addendum #1. Door #13, top of interior stair, does not swing the direction of egress on Addendum #1. The door swing will be revised to swing in the direction of travel in change order #1 and will be submitted to the eventual general contractor.

Handrails on both sides of stairs have been indicated in Addendum #1.

After reviewing your comments regarding ADA accessibility to the stage, the Owner has decided to omit the platform and steps to the platform. It is too late for an addendum, so this will be addressed in change order #1.

The front steps have been enlarged to 7'-6" wide to accommodate up to 300 occupants. This was addressed in addendum #1.

The front door, in an existing opening, can accommodate a 66" opening. By subtracting the frame and door width, the clear opening is 58" (as you noted by email) and therefore can accommodate a total of 290 occupants.

By removing the stage, we have been able to re-address the occupant load of the first floor as we have indicated the stage area to be dance floor. See the attached sketches indicating a new occupant load analysis. We have readdressed the assembly and seating spaces so that there is a total occupant load of 433 on the first floor (NFPA). By factoring 2/3 of egress through the front door, the occupant load through the front door must handle 289 occupants, the door opening can handle 290 occupants. The attached sketches will be issued as change order #1 to the eventual general contractor.

Please contact me if you have any questions in the analysis of Bowl Portland.

Thank you for your help in the review of this project.

Sincerely,

David Matero, AIA, LEED AP 207.671.6820

Cc: Tammy Munson, Portland Code Enforcement Officer

Charlie Mitchell Justin Alfond

Dale Akeley, Project Resources, Inc.

Encl: ASK-04, Occupancy Areas

ASK-05, First Floor Occupant Load

First Floor Occupant Load

<u>First Floor</u>	IBC 2003 (Table 10	04.1.2)	Life Safety 2006 (1	Table 7.3.1.2)
Bowling Center	12 lanes @ 5 per lane + 275 sf @ 7 sf net	171 Occupants / 7 /	12 Lanes @ 5 per lane + 775 sf @ 7 sf net	171 Occupants
Assembly Space — (Dance Floor (Concentrated)	575 sf @ 5 sf	115 Occupants	575 sf @ 7 sf net	82 Occupants
Fixed Booth Seating (20 Seats	20 Occupants	20 Seats	20 Occupants
Assembly Space — Tables/Chairs (Unconcentrated)	650 sf @ 15 sf net	44 Occupants	650 sf @ 15 sf net	44 Occupants
Assembly Space — (Standing (Concentrated)	165 sf @ 5 sf	33 Occupants	165 sf @ 7 sf	24 Occupants
Bar Seating (Actual seats)		28 Occupants		28 Occupants
Kitchen :	590 sf @ 200 gross sf	3 Occupants	590 sf @ 100 sf	6 Occupants
Coat Room	50 sf @ 50 gross sf	1 Occupant		
Game Room	80 sf @ 11 gross sf (use Casino)	7 Occupants	80 sf @ 11 sf (use Casino)	7 Occupants
DJ Booth / Soundboard	40 sf	2 Occupants	40 sf	2 Occupants
Entry (Concentrated or Bowling Center Other L Area)	340 sf @ 7 sf	49 Occupants	340 sf @ 7 sf	49 Occupants
Total Occupant Load First Floor		473 Occupants		433 Occupants

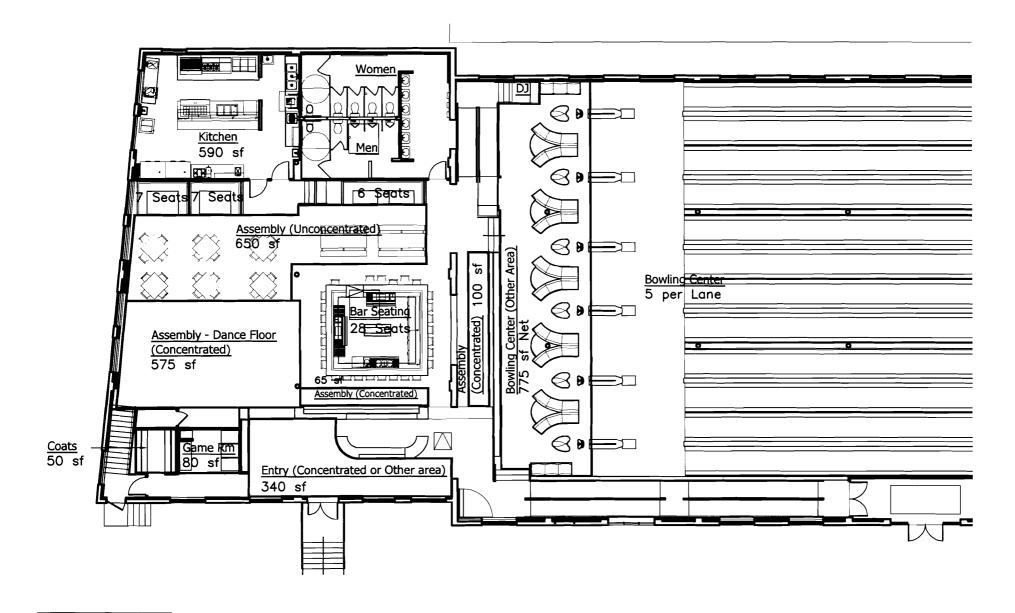
DayMatero Main Architecture Lighting Design

Change Order #1

R.2, First Floor Occupant Load
Scale: NTS
Date: 12.28.09

Bowl Portland 58 Alder Street, Portland, Maine **ASK.05**

Copyright 2009, DayMatero studio LLC



DayMatero Acceptance Lighting Design

100 Front Street Top Floor Bath Maine US 04530 207.671.6819 info@daymatero.com

Copyright 2009, DayMatero studio LLC

Change Order #1

Bowl Portland
58 Alder Street, Portland, Maine

R.2, Occupancy Areas

Scale: 1/16" = 1'-0" Date: 12.28.09

ASK.04

From:

David Matero <david@daymatero.com>
Tammy Munson <tmm@portlandmaine.gov>

To:

Date:

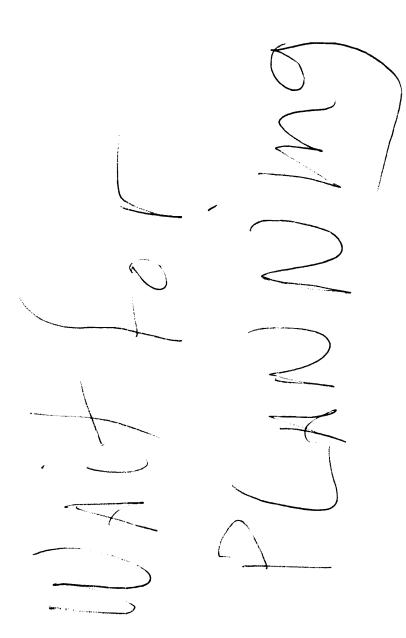
12/29/2009 7:59:47 AM

Subject:

Fwd: Bowl Portland

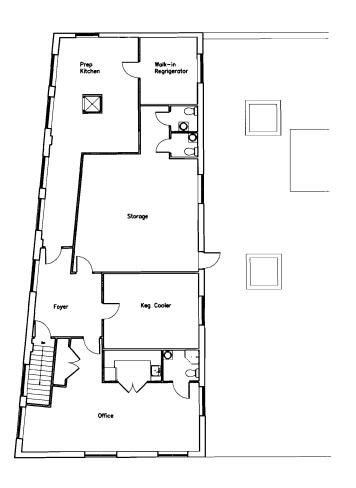
Tammy,

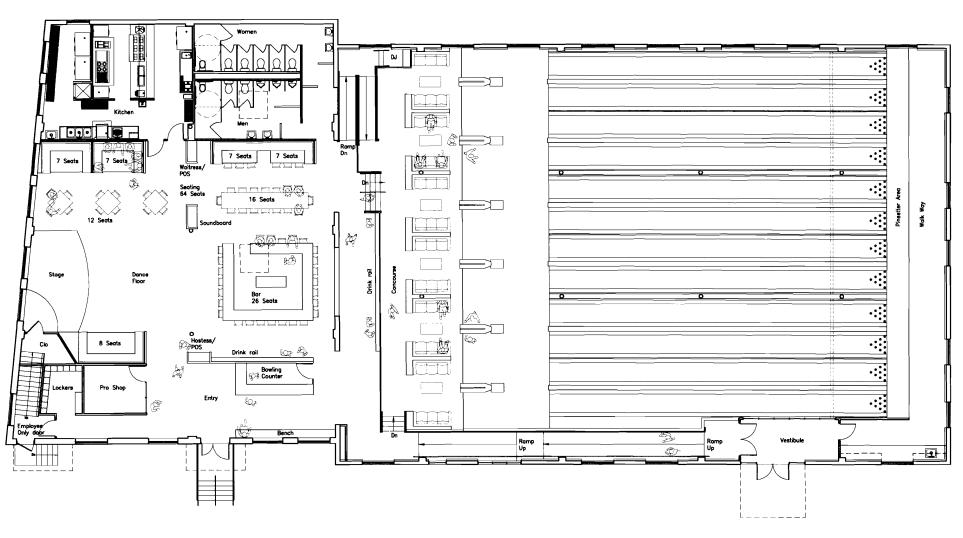
on Bowl Portland.



> > David S. Matero, AIA, LEED AP

David S. Matero, AIA, LEED
DayMatero studio
100 Front Street
Top Floor
Bath, ME 04530
david@daymatero.com
http://www.daymatero.com/
207.671.6820





Second Floor Plan
Scale: 1/8° = 1'-0°

First Floor Plan
Scale: 1/8" = 1''.0"

Program of Spaces (1st Flr)

Bowling lanes, approach, and walkway	6,530 sf
Concourse	1,200 sf
Bowling alley circulation	1,000 sf
Kitchen	600 sf
Seating and dance floor	1,275 sf (66 seats)
Stage	200 sf
Bor	300 sf
Bowling Counter	80 sf
Store	100 sf
Entry	375 sf
Toilets	500 sf
Lockers	65 sf
Total Net SF	12,225 sf
Gross SF	13,720 sf

Program of Spaces (2nd Flr)

Office	580 sf	
Storage	530 sf	
Prep Kitchen	435 sf	
Walk-in Ref	135 sf	
Keg Cooler	250 sf	
Toilets	50 sf	
Total Net SF	1,980 sf	
Gross SF	2,525 af	

DayMatero

Architecture Lighting Design

100 Front Street Top Floor Bath Moine US 04530 207.671.6819 info@daymatero.com

<u>Consultants</u>
Casco Bay Engineering
Structural Engineer

Casco Bay Engineering
Civil Engineer

TJM Consulting Food Service

<u>Revisions</u>

Bowl Portland

Job Numbe

Job Number: 09.017 Date: 14.Sep.09 Scale: 1/8" = 1'-0"

Drawing Title:

Proposed Floor Plans

A.1

Design
Meeting

Copyright 2009, DayMatero studio LLC

Second Floor Occupant Load

Second Floor	IBC 2003 (Table 1004.1.2)		Life Safety 2003 (Table 7.3.1.2)	
Kitchen	444 sf @ 200 gross sf	2 Occupants	444 sf @ 100 sf	4 Occupants
Storage	542 sf @ 300 gross sf	2 Occupants	542 sf © 300 sf	2 Occupants
Office (Business Area)	473 sf © 100 gross sf	5 Occupants	473 sf © 100 gross sf	5 Occupants
Total Occupant Load First Floor		9 Occupants		9 Occupants

SECOND FLOOR EXT

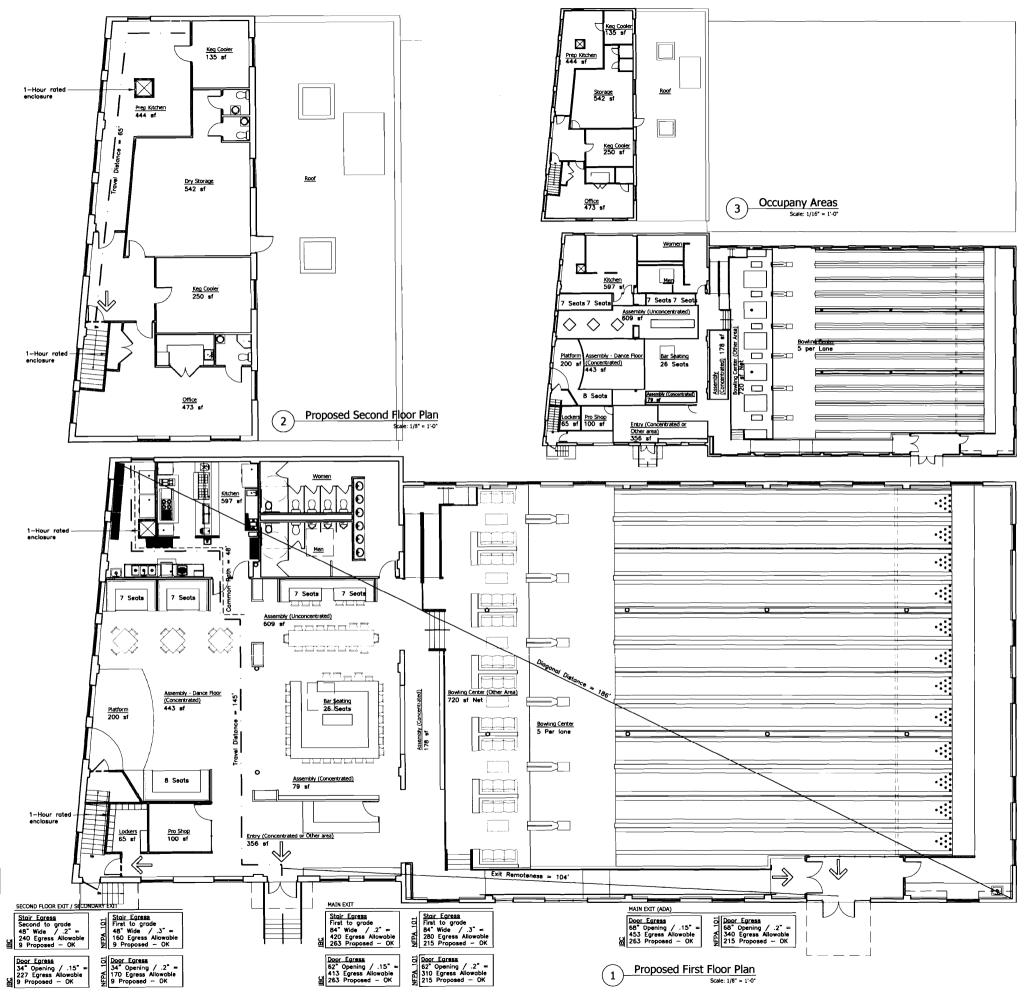
Stair Egress Second to grade 48" Wide / 2" = 240 Egress Allowable	Stoir Egress First to grade 48" Wide / .3"
240 Egress Allowable	160 Egress Allowa
9 Proposed - OK	9 Proposed — OK

First Floor Occupant Load

First Floor	IBC 2003 (Table 100	IBC 2003 (Table 1004.1.2)		Life Safety 2003 (Table 7.3.1.2)	
Bowling Center	12 lanes ● 5 per lane + 720 sf ● 7 sf net	163 Occupants	12 Lones ● 5 per lone + 720 sf ● 7 sf net	163 Occupants	
Assembly Space — Dance Floor (Concentrated)	443 sf 0 5 sf	89 Occupants	443 sf ● 7 sf net	63 Occupants	
Fixed Booth Seating	36 Seats	36 Occupants	36 Seats	36 Occupants	
Assembly Space — Tables/Chairs (Unconcentrated)	528 sf © 15 sf net	35 Occupants	528 sf @ 15 sf net	35 Occupants	
Assembly Space — Standing (Concentrated)	257 sf © 5 sf	51 Occupants	127 sf 9 7 sf	37 Occupants	
Bar Seating (Actual seats)		26 Occupants		26 Occupants	
Kitchen	597 sf © 200 gross sf	3 Occupants	597 sf © 100 sf	6 Occupants	
Lockers	65 sf © 50 gross sf	1 Occupant			
Pro Shop	100 sf © 30 gross sf	3 Occupants	100 af © 30 af	3 Occupants	
Platform	200 sf 9 15 sf net	13 Occupants	200 sf 0 15 sf	13 Occupants	
Entry (Concentrated or Bowling Center Other Area)	356 sf 0 7 sf	51 Occupants	365 sf @ 7 sf	51 Occupants	
Total Occupant Load		471 Occupants		430 Occupants	

Minimum Plumbing Fixtures (Restaurants, Pubs, Lounges)

	Men	Men		
Water Closets	236 Occ = 3 WC	236 Occ ≈ 2 Urinals	236 Occ = 4 WC (5 to equal Men)	
Lavatories	236 Occ = 3 Lavs		236 Occ = 3 Lavs	



DayMatero

100 Front Street Top Floor Bath Maine US 04530 207.671.6819 infa@daymatero.com

<u>Consultants</u> Casco Bay Engineering
Structural Engineer

Casco Bay Engineering
Civil Engineer

TJM Consulting Food Service

<u>Revisions</u>

Portland O W $\overline{\alpha}$

Job Number: 09.017 Date: 14.Sep.09 Scale: 1/8" = 1'-0"

Drawing Title:

Code Review

Plan

Not For Construction

Copyright 2009, DayMatero studio ELC